2012 – 2013

General Catalog

University of Missouri-Kansas City
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Introduction
The academic program catalogs of the university are available online only. The undergraduate programs and the graduate & professional programs catalogs cover all of the academic programs of UMKC.

General undergraduate academic rules and regulations and graduate academic regulations and information apply to all undergraduate and graduate programs, respectively.

Prospective students should be aware that the University reserves the right to make changes in admission requirements, fees and other specifications in the catalog.

The web site address for the catalogs is http://umkc.edu/catalog.

These catalogs are the official record of degree program requirements. Students are expected to become thoroughly familiar with all academic regulations and requirements of this catalog pertaining to their program of study and to comply with its provisions.

Special Notices

- Telecommunications for the Speech and Hearing Impaired
- Statement of Human Rights
- Student's Right-To-Know
- Notice of Nondiscrimination
- UMKC AIDS Policy Statement
- Academic Honesty

University of Missouri - Kansas City (UMKC)

- Mission
- History
- Central Administration
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  - Office of the Executive Vice Chancellor and Provost
  - Office of the Vice Chancellor for Student Affairs and Enrollment Management
  - Office of the Vice Chancellor for Administrative Services
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Academic Units

College of Arts and Sciences [A&S]
School of Biological Sciences [SBS]
Henry W. Bloch School of Management (BLOCH)
School of Computing and Engineering [SCE]

Special Notices
For information on the following subjects, follow the links below:

- Academic Calendar
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- Bookstore
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- Financial Aid and Scholarships
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- Student Activities
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- Testing Services
- Tuition and Fees

“Accreditation” is the primary means of assuring and improving the quality of higher education institutions and programs in the United States. Active for the past 100 years, this private, voluntary system of self-examination and peer review has been central to the creation of a U.S. higher education enterprise that is outstanding in many respects.

-- Council for Higher Education Accreditation
The University of Missouri - Kansas City is accredited by The Higher Learning Commission and is a member of the North Central Association.

The Higher Learning Commission  
North Central Association of Colleges and Schools  
30 North LaSalle Street, Chicago, IL 60602  
(312) 263-0456  
http://www.ncahlc.org

The Higher Learning Commission accredits UMKC as a whole. Specific undergraduate, graduate, and professional programs, are also accredited by other programmatic accrediting agencies. The accredited programs and their accrediting agencies are identified in the applicable academic unit and/or program information sections of the catalog.

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Special Notices

- Telecommunications for the Speech and Hearing Impaired
- Statement of Human Rights
- Student's Right-To-Know
- Notice of Nondiscrimination
- UMKC AIDS Policy Statement
- Academic Honesty and Student Code of Conduct

Telecommunications Services for the Speech and Hearing Impaired

UMKC offices and departments may be reached through Relay Missouri, a telecommunications relay service for those who are hearing or speech impaired. Trained relay agents ensure the calls are completed. The toll-free Relay Missouri access numbers:

(800)735-2966 (Text Telephone)  
(800)735-2466 (Voice)

Statement of Human Rights

The Board of Curators and UMKC are committed to the policy of equal opportunity, regardless of race, color, religion, sex, sexual orientation, national origin, age, disability and status as a Vietnam era veteran.

Commitment to the policy is mentored by the Division of Diversity, Access & Equity, but it is the responsibility of the entire university community to provide equal opportunity through relevant practices, initiatives and programs.
Student's Right-To-Know
In accordance with Public Law 101-542, UMKC reports 71 percent of its first-time freshmen return the second year.

The UMKC Police Department publishes an annual campus report on personal safety and crime statistics. The report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings owned or controlled by UMKC; and on public property within, or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, such as policies concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault and other matters.

The report is available at the UMKC Police Department, Room 214B, 4825 Troost Building or via the Web site: http://www.umkc.edu/safetyreport.

Various state and federal laws, specifically the Higher Education Opportunity Act, require the University of Missouri—Kansas City to provide information and notice to students on a variety of topics. Federal disclosure requirements for student consumer information can be found at the following website: http://www.umkc.edu/registrar/procedures/student-consumer-info.asp.

Notice of Nondiscrimination
Students, staff, faculty, visitors, applicants for admission and employment, and all unions or professional agreements holding collective bargaining or professional agreements with the University of Missouri-Kansas City are hereby notified that this institution does not discriminate on the basis of race, color, national origin, religion, sex, age, disability, veteran status, or sexual orientation in compliance with Title VI, Title IX, Title VII of the Civil Rights Act of 1964, as amended, and Sections 501, 503, 504, and 505 of the Rehabilitation Acts of 1973, as amended.

Any person who feels they have been discriminated against or who have inquiries regarding this institution's compliance with the foregoing regulations may contact UMKC's Affirmative Action Director by visiting

Division of Diversity, Access & Equity
Administrative Center, Room 223
5115 Oak Street
(816)235-1323
Fax:(816)235-6537
ode@umkc.edu
http://www.umkc.edu/diversity

or by writing to
**UMKC AIDS Policy Statement**

To address special needs of the University of Missouri-Kansas City, the following policy is in effect:

Faculty, staff and students should be aware that discrimination on the basis of race, color, religion, national origin, ancestry, sex, sexual orientation, age and handicap (to include AIDS), is prohibited by state law. All are expected to conduct university-related activities without any such discrimination. Failure to fulfill these obligations may subject faculty, staff and students to disciplinary action. Such action shall be taken in accordance with the following University of Missouri procedures: Rules of Procedure in Student Disciplinary Matters and the Dismissal for Cause Procedure.

Those who feel they may have been discriminated against may use the Grievance Procedure for Administrative, Service and Support Staff; Discrimination Grievance Procedure for Students; and Academic Grievance Procedures.

This statement is based on the recommendations of the Missouri Human Rights Commission and is in accordance with the statements of professional responsibility and codes of ethics of the Association of American Medical Colleges, the American Medical Association, the American Dental Association, and the National League of Nursing.

**Academic Honesty**

The Board of Curators of the University of Missouri recognizes that academic honesty is essential for the intellectual life of the University. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. Academic dishonesty, including cheating, plagiarism or sabotage, is adjudicated through the University of Missouri Student Conduct Code and Rules of Procedures in Student Conduct Matters.

See the Policy Section of the Appendices to this catalog for a complete reading of these regulations. There are also academic honor codes in the schools of pharmacy, dentistry, medicine, nursing and law.

- School of Pharmacy Honor Codes
- School of Medicine Honor Codes
- School of Dentistry Honor Codes
- School of Nursing Honor Codes
- School of Law Honor Codes
Academic Programs

Undergraduate Programs

Catalog of Undergraduate Programs

All undergraduate programs have two required components: a general education program and a major program in a particular field of study. General education program requirements vary within and between academic units. Links to general education requirements are provided here by unit for those units that have undergraduate programs.

- GENERAL EDUCATION
  - College of Arts and Sciences [A&S]
  - School of Biological Sciences [SBS]
  - Henry W. Bloch School of Management [BLOCH]
  - School of Computing and Engineering [SCE]
  - School of Dentistry [DENTISTRY]
  - School of Education [EDUCATION]
  - School of Medicine [MEDICINE]
  - Conservatory of Music and Dance [CONSERVATORY]
  - School of Nursing [NURSING]

Undergraduate fields of study are listed in capital letters. The actual baccalaureate degrees to be earned with a major in the field of study are shown in parentheses linked to degree program requirements. The academic unit administering the degree program is shown in brackets linked to general information about the unit, including location and contact information. Special emphasis areas, if any, for the degree program are indented beneath the major field of study. Only special emphasis areas shown here appear on students’ official transcripts. Minors and Certificates, if any, are also listed by field of study. Minors appear on students’ official transcripts. Other differences within degree programs, such as differences in concentrations, focuses, and tracks, may signify alternatives in meeting degree requirements, but do not appear on students’ official transcripts and are not listed here.

ACCOUNTING [BLOCH]
- Bachelor of Science

ANTHROPOLOGY [A&S]
- Minor in Anthropology

ARCHITECTURAL STUDIES [A&S]
- Bachelor of Arts (Joint Program with Kansas State: 5-year degree awarded by KSU)

ART HISTORY [A&S]
• Bachelor of Arts
  Minor in Art History
BIOLOGY [SBS]
• Bachelor of Arts
Bachelor of Science
  • Emphasis in Bioinformatics
  
  Emphasis in Biotechnology
  Emphasis in Cellular and Molecular Basis of Health and Disease
  Minor in Biology
BLACK STUDIES [A&S]
• Minor in Black Studies
BUSINESS ADMINISTRATION [BLOCH]
• Bachelor of Business Administration
  
  Emphasis in Enterprise Management
  
  Emphasis in Entrepreneurship
  Emphasis in Finance
  Emphasis in Marketing
  Minor in Business Administration
CHEMISTRY [A&S]
• Bachelor of Arts
Bachelor of Science
  Minor in Chemistry
CIVIL ENGINEERING [SCE]
• Bachelor of Science
CLASSICAL AND ANCIENT STUDIES [A&S]
• Minor in Classical and Ancient Studies
COMMUNICATION STUDIES [A&S]
• Bachelor of Arts
  
  Emphasis in Interpersonal and Public Communication
Emphasis in Journalism and Mass Communication
Emphasis in Film and Media Arts
Minor in Communication Studies
COMPUTER SCIENCE [SCE]
  • Bachelor of Arts

Bachelor of Science
  • Emphasis in Bioinformatics

Emphasis in Software Engineering
Emphasis in Telecommunications Networking
Minor in Computer Science
CRIMINAL JUSTICE AND CRININOLOGY [A&S]
  • Bachelor of Arts

Minor in Criminal Justice and Criminology
DANCE [CONSERVATORY]
  • Bachelor of Fine Arts

DENTAL HYGIENE [DENTISTRY]
  • Bachelor of Science in Dental Hygiene

EARLY CHILDHOOD EDUCATION [EDUCATION]
  • Bachelor of Arts

ECONOMICS [A&S]
  • Bachelor of Arts

Minor in Economics
ELECTRICAL AND COMPUTER ENGINEERING [SCE]
  • Bachelor of Science

ELEMENTARY EDUCATION [EDUCATION]
  • Bachelor of Arts

ENGLISH [A&S]
  • Bachelor of Arts
• Emphasis in Creative Writing

Minor in Creative Writing
Minor in Manuscript, Print Culture, and Editing
Minor in Writing
Minor in Language and Literature
ENTREPRENEURSHIP [BLOCH]

• Minor in Entrepreneurship

ENVIRONMENTAL SCIENCE [A&S]

• Bachelor of Science

ENVIRONMENTAL STUDIES [A&S]

• Bachelor of Arts

Minor in Environmental Studies

FAMILY STUDIES [A&S]

• Minor in Family Studies

FILM STUDIES [A&S]

• Minor in Film Studies

FRENCH [A&S]

• Bachelor of Arts

Minor in French

GEOGRAPHY[A&S]

• Bachelor of Arts

Bachelor of Science
Minor in Geography

GEOGRAPHICAL INFORMATION SYSTEMS [ A&S]

• Certificate in GIS

GEOLOGY [ A&S]

• Bachelor of Arts
Bachelor of Science
Minor in Geology
GERMAN [ A&S]

- Bachelor of Arts

Minor in German
Minor in German Studies
GERONTOLOGY [ A&S]

- Gerontology Minor

Gerontology Certificate
HEALING AND HUMANITIES [ A&S]

- Healing and Humanities Minor

HISTORY [ A&S]

- Bachelor of Arts

Minor in History
INFORMATION TECHNOLOGY [ SCE]

- Bachelor of Information Technology

JUDAIC STUDIES [ A&S]

- Judaic Studies Minor

LIBERAL ARTS [ A&S]

- Bachelor of Liberal Arts

MATHEMATICS AND STATISTICS [ A&S]

- Bachelor of Arts

Bachelor of Science
Minor in Mathematics
MECHANICAL ENGINEERING [ SCE]

- Bachelor of Science in Mechanical Engineering

MIDDLE SCHOOL EDUCATION [ EDUCATION]
• Bachelor of Arts

MUSIC [CONSERVATORY]

• Bachelor of Arts
• Emphasis in Music Therapy

MUSIC COMPOSITION [CONSERVATORY]

• Bachelor of Music

MUSIC EDUCATION [CONSERVATORY]

• Bachelor of Music Education
• Emphasis in Choral Music

Emphasis in Instrumental Music
Emphasis in Choral and Instrumental Music
Emphasis in Music Therapy

MUSIC THEORY [CONSERVATORY]

• Bachelor of Music

NURSING [NURSING]

• Bachelor of Science in Nursing
• Pre-licensure option

R.N. - B.S.N. option
Bachelor of Health Sciences

PERFORMANCE [CONSERVATORY]

• Bachelor of Music

• Emphasis in Bassoon

Emphasis in Cello
Emphasis in Clarinet
Emphasis in Euphonium
Emphasis in Flute
Emphasis in Guitar
Emphasis in Horn
Emphasis in Jazz and Studio Music
Emphasis in Oboe
Emphasis in Organ
Emphasis in Percussion
Emphasis in Piano
Emphasis in Piano Pedagogy
Emphasis in Saxophone
Emphasis in String Bass
Emphasis in Trombone
Emphasis in Trumpet
Emphasis in Tuba
Emphasis in Viola
Emphasis in Violin
Emphasis in Voice

PHILOSOPHY [A&S]

- Bachelor of Arts

Minor in Philosophy

PHYSICS AND ASTRONOMY [A&S]

- Bachelor of Arts

Bachelor of Science
Minor in Physics
Minor in Astronomy

POLITICAL SCIENCE [A&S]

- Bachelor of Arts

Minor in Political Science

PSYCHOLOGY [A&S]

- Bachelor of Arts

SECONDARY EDUCATION [EDUCATION]

- Bachelor of Arts

- Emphasis in Art (K-12)

Emphasis in English
Emphasis in French (K-12)
Emphasis in German (K-12)
Emphasis in Mathematics
Emphasis in Natural Science/Biology
Emphasis in Natural Science/Biology Unified
Emphasis in Natural Science/Chemistry
Emphasis in Natural Science/Chemisty Unified
Emphasis in Natural Science/Earth Science
Emphasis in Natural Science/Earth Science Unified
Emphasis in Natural Science/Physics
Emphasis in Natural Science/Physics Unified
Emphasis in Social Science
Emphasis in Spanish (K-12)
SOCIOLOGY [A&S]
  • Bachelor of Arts

Minor in Sociology
SPANISH [A&S]
  • Bachelor of Arts

Minor in Spanish
STUDIO ART [A&S]
  • Bachelor of Arts

Minor in Studio Art
THEATRE [A&S]
  • Bachelor of Arts

Minor in Theatre
URBAN PLANNING AND DESIGN [A&S]
  • Bachelor of Arts

URBAN STUDIES [A&S]
  • Bachelor of Arts

Minor in Urban Studies
WOMEN'S AND GENDER STUDIES [A&S]
  • Minor in Women's and Gender Studies
Graduate and Professional Programs

Catalog of Graduate and Professional Programs

Graduate fields of study are listed in capital letters. The actual Master's or Doctoral degrees or graduate certificates to be earned in the fields of study are shown under each field and linked to program requirements. The academic unit administering the degree program is shown in brackets linked to general information about the unit, including location and contact information.

Special emphasis areas, if any, for the degree program are indented beneath the field of study. Only special emphasis areas shown here appear on students' official transcripts.

Other differences within degree programs, such as differences in concentrations, focuses, and tracks, may signify alternatives in meeting degree requirements, but do not appear on students' official transcripts and are not listed in this list.

ACCOUNTING [BLOCH]
- Master of Science

ADVANCED EDUCATION IN GENERAL DENTISTRY [DENTISTRY]
- Graduate Certificate

ANESTHESIA [MEDICINE]
- Master of Science

ART HISTORY [A&S]
- Master of Arts

BIOINFORMATICS [MEDICINE]
- Master of Science

BIOLOGY [SBS]
- Master of Arts

BUSINESS ADMINISTRATION [BLOCH]
- Master of Business Administration
- Entrepreneurship

Finance
General Management
International Business
Leadership and Change in Human Systems
Management of Information Systems
Marketing
Operations Management

CELLULAR AND MOLECULAR BIOLOGY [SBS]
- Master of Science
- General

Bioinformatics

CHEMISTRY [A&S]
- Master of Science
- Analytical Chemistry

Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Polymer Chemistry

CIVIL ENGINEERING [SCE]
- Master of Science in Civil Engineering

CLINICAL RESEARCH [MEDICINE]
- Graduate Certificate

COLLEGE TEACHING & CAREER PREPARATION [SGS]
- Graduate Certificate

COMMUNITY COLLEGE LEADERSHIP [EDUCATION]
- Graduate Certificate

COMPUTER SCIENCE [SCE]
- Master of Science in Computer Science
- Bioinformatics
Networking and Telecommunications
Software Engineering and Systems
COUNSELING AND GUIDANCE [EDUCATION]

- Graduate Certificate
- Health Professions Curriculum and Evaluation

Master of Arts
- Couples and Family Counseling

Elementary School Counseling and Guidance
  General
  Gerontological Counseling
  Mental Health Counseling
  School Counseling and Guidance
  Substance Abuse Counseling
  Education Specialist
    - General

Couples & Family Therapy
  Mental Health Counseling
  School Counseling
  Substance Abuse Counseling

COUNSELING PSYCHOLOGY [EDUCATION]

- Doctor of Philosophy

CREATIVE WRITING & MEDIA ARTS [A&S]

- Master of Fine Arts

CRIMINAL JUSTICE AND CRIMINOLOGY [A&S]

- Master of Science

CURRICULUM AND INSTRUCTION [EDUCATION]

- Master of Arts
- Early Childhood Education

Elementary Education
  General
  Learning Technologies
  Multicultural Education
Subject Matter Specialty
Teaching English as a Second Language
Education Specialist
  • Curriculum & Instruction Leadership

DENTAL HYGIENE EDUCATION [DENTISTRY]
  • Master of Science

DENTAL SURGERY [DENTISTRY]
  • Doctor of Dental Surgery

ECONOMICS [A&S]
  • Master of Arts
  • Applied Urban Economics

EDUCATION [EDUCATION]
  • Doctor of Education

EDUCATIONAL ADMINISTRATION [EDUCATION]
  • Master of Arts

Elementary School Administration

General
Higher Education Administration
Secondary School Administration
Education Specialist

Elementary and Secondary School Administration

General
Higher Education Administration
Special Education Administration
ELECTRICAL ENGINEERING [SCE]
  • Master of Science

ENDODONTICS [DENTISTRY]
  • Graduate Certificate
ENGLISH [A&S]

- **Master of Arts**

ENVIRONMENTAL AND URBAN GEOSCIENCES [A&S]

- **Master of Science**

FINANCE [BLOCH]

- **Master of Science**

HEALTH PROFESSIONS CURRICULUM AND EVALUATION [EDUCATION]

- **Graduate Certificate**

HISTORY [A&S]

- **Master of Arts**

INTERDISCIPLINARY LEADERSHIP IN DISABILITY STUDIES [SGS]

- **Graduate Certificate**

INTERDISCIPLINARY STUDIES [SGS]

- **Doctor of Philosophy**
- **Art History**

**Cell Biology and Biophysics**
**Chemistry**
**Computer Science**
**Curriculum and Instruction**
**Economics**
**Educational Leadership, Policy & Foundations**

**Electrical and Computer Engineering**
**Engineering**
**English**
**Entrepreneurship**
**Geosciences**
**History**
**Humanities Consortium**
**Mathematics**
**Molecular Biology and Biochemistry**
Music Education
Oral Biology
Pharmaceutical Sciences
Pharmacology
Physics
Political Science
Public Affairs and Administration
Religious Studies
Social Sciences Consortium: Economics, Political Science and Sociology
Telecommunication and Computer Networking
LAW [LAW]

- Juris Doctor
- Business and Entrepreneurial Law

Child and Family Law
International, Comparative & Foreign Law
Litigation
Urban, Land Use and Environmental Law
Master of Law
LIBERAL STUDIES [A&S]

- Master of Arts

MATHEMATICS AND STATISTICS [A&S]

- Master of Arts

Master of Science
MECHANICAL ENGINEERING [SCE]

- Master of Science in Mechanical Engineering

MEDICINE [MEDICINE]

- Medical Doctor

Master of Science

Anesthesia

Bioinformatics
MUSIC COMPOSITION [CONSERVATORY]

- Master of Music
Doctor of Musical Arts
MUSIC CONDUCTING [CONSERVATORY]

- Master of Music

Doctor of Music Arts
MUSIC EDUCATION [CONSERVATORY]

- Master of Music
- Choral
- General
- Instrumental

MUSIC PERFORMANCE [CONSERVATORY]

- Post-Baccalaureate Performer's Certificate

Bassoon

Cello
Clarinet
Euphonium
Flute
General
Guitar
Horn
Oboe
Organ
Percussion
Piano
Saxophone
String Bass
Trombone
Trumpet
Tuba
Viola
Violin
Voice
Woodwinds
Master of Music

Bassoon

Cello
Clarinet
Euphonium
Flute
General
Guitar
Horn
Oboe
Organ
Percussion
Piano
Saxophone
String Bass
Trombone
Trumpet
Tuba
Viola
Violin
Voice
Woodwinds
Post-Master's Artist's Graduate Certificate
Doctor of Musical Arts

- Bassoon

Cello
Clarinet
Euphonium
Flute
General
Guitar
Horn
Oboe
Organ
Percussion
Piano
Saxophone
String Bass
Trombone
Trumpet
Tuba
Viola
Violin
Voice
MUSIC THEORY [CONSERVATORY]

- Master of Music

MUSIC THERAPY [CONSERVATORY]
• Master of Arts in Music

MUSICOCOLOGY [CONSERVATORY]

• Master of Music

NURSE EDUCATOR [NURSING]

• Graduate Certificate

NURSING [NURSING]

• Master of Science in Nursing

Doctor of Nursing Practice
Doctor of Philosophy

ORAL AND MAXILLOFACIAL RADIOLOGY [DENTISTRY]

• Graduate Certificate

ORAL AND MAXILLOFACIAL SURGERY [DENTISTRY]

• Graduate Certificate

ORAL BIOLOGY [DENTISTRY]

• Master of Science

ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS [DENTISTRY]

• Graduate Certificate

PEDIATRIC DENTISTRY [DENTISTRY]

• Graduate Certificate

PERIODONTICS [DENTISTRY]

• Graduate Certificate

PHARMACY [PHARMACY]

• Doctor of Pharmacy

PHYSICS [A&S]
• Master of Science

POLITICAL SCIENCE [A&S]
• Master of Arts

PSYCHOLOGY [A&S]
• Master of Arts
• Master of Arts

Doctor of Philosophy
PUBLIC ADMINISTRATION [BLOCH]
• Master of Public Administration
• General

Health Services Administration
Nonprofit Management
Urban Administration
READING EDUCATION [EDUCATION]
• Master of Arts

Education Specialist
ROMANCE LANGUAGES AND LITERATURE [A&S]
• Master of Arts

SOCIAL WORK [A&S]
• Master of Social Work

SOCIOLOGY [A&S]
• Master of Arts

SPECIAL EDUCATION [EDUCATION]
• Master of Arts

STUDIO ART [A&S]
• Master of Arts

TAXATION []
Master of Laws

TEACHING OF WRITING [A&S]

- Graduate Certificate

THEATER [A&S]

- Master of Arts

THEATER: ACTING AND DIRECTING [A&S]

- Master of Fine Arts

- Acting

Directing

THEATER: DESIGN AND TECHNOLOGY [A&S]

- Master of Fine Arts

- Design

Technology

URBAN AFFAIRS [LAW]

- Master of Laws

WASTE MANAGEMENT [A&S]

- Graduate Certificate
Undergraduate Admission Policy & Procedures

Administrative Center, Room 120
5115 Oak Street
(816) 235-1111 (Kansas City Metro)
(800) 775-8652 (Outside of Metro)
Fax: (816) 235-5544
admit@umkc.edu
http://www.umkc.edu/admissions

Mailing Address University of Missouri-Kansas City
Office of Admissions
Room 120
5100 Rockhill Road
Kansas City, MO 64110-2499

Director of Admissions:
Tamara Cloutier Byland

Associate Director/Admissions:
Doretta Kidd

Associate Director/Recruitment:
Sara Gillham Bedwell

Manager, Welcome Center:
Maya Mapp

Manager, Communications Center:
Aubrey Hooley

- Application for Admission
- Freshman Admission
- Transfer Admission
- Special Admission Cases
- Former Student Readmission
- Visiting and Community Student Admission
- Timing of Applications
- Policies on Regular Admission - Medicine
- Policies on Admission of International Students
- Midwest Student Exchange Program
- Metro Rate
- Application Forms
Application for Admission

Qualified students seeking admission must submit:

1. Completed application form. Forms can be found online at http://www.umkc.edu/apply. Domestic students may contact the UMKC Admissions Office for a paper application. Domestic students include Permanent Residents and students who have been granted Assylee or Refugee status. International students apply through the International Student Affairs Office.
2. A nonrefundable application fee. The fee for domestic students submitting an online application is $35 (or $45 with a paper application); the international student application fee is $50.
3. High school transcripts with class rank (if applicant has fewer than 24 transfer college hours).
4. ACT or SAT score (if applicant has fewer than 24 transfer college hours).
5. Official transcripts from each previous institution where college coursework was attempted.

Appeal of Admission Decisions

Students who are denied admission as a freshman or transfer to the institution may write a letter of appeal to the Director of Admissions, 5100 Rockhill Rd., Kansas City, MO 64110. Students who are denied readmission must direct their appeal to the appropriate dean’s office of the school or college to which they were denied readmission.

Freshman Admission

Automatic Admission from High School

Admission to UMKC is designed to reflect a student's probable success at the University. Since fall 1997, UMKC has admitted students according to the Missouri Coordinating Board for Higher Education's (CBHE) category of "selective institution." Selective institutions admit first-time, full-time degree-seeking students and transfer students who have completed 24 or fewer credit hours, who attain a combined percentile score, resulting from the addition of their high school percentile rank and the percentile rank attained on a national normalized test, i.e. ACT or SAT, which equals or exceeds 120 points. Students achieving a score of 24 or better on the ACT College Entrance Examination, or its equivalent on the SAT, are automatically admitted to selective institutions.

The required ACT/class rank combinations are as follows:

<table>
<thead>
<tr>
<th>High School Class Rank Percentile</th>
<th>ACT Composite Standard Score</th>
<th>SAT CR &amp; M Standard Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>94 and above</td>
<td>17</td>
<td>820-850</td>
</tr>
<tr>
<td>86-93</td>
<td>18</td>
<td>860-890</td>
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<tr>
<td>78-85</td>
<td>19</td>
<td>900-930</td>
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<tr>
<td>69-77</td>
<td>20</td>
<td>940-970</td>
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<tr>
<td>62-68</td>
<td>21</td>
<td>980-1010</td>
</tr>
<tr>
<td>54-61</td>
<td>22</td>
<td>1020-1040</td>
</tr>
<tr>
<td>48-53</td>
<td>23</td>
<td>1050-1080</td>
</tr>
<tr>
<td>47 and below</td>
<td>24</td>
<td>1090 or higher</td>
</tr>
</tbody>
</table>
Admitted students are expected to have followed a college-preparatory curriculum that includes at least 17 units of credit (with each unit equaling one year in class), as follows:

- Four units of English, one of which may be in speech or debate (two units emphasizing composition or writing skills are required).
- Four units of mathematics (Algebra I or higher). This requirement may be satisfied by the completion of courses in middle school, junior high or senior high.
- Three units of science (not including General Science). The three units of science must include a laboratory course and must include units from at least two of the following areas: physical science, biology, physics, chemistry and earth sciences. This requirement may be satisfied by the completion of courses in middle school, junior high or senior high.
- Three units of social studies.
- One unit of fine arts, to be taken in visual arts, music (e.g., band, orchestra, music appreciation, music theory), dance or theater.
- Two units of a single foreign language or American sign language. This requirement may be satisfied by completion of courses in middle school, junior high or senior high.

**Missouri Enhanced Admission**

Any student attending a Missouri high school who ranks in the top 10 percent of his or her graduating class and completes the college preparatory curriculum which includes at least 17 units of credit (four units of English, four units of math, three units of social studies, three units of science, two units of foreign language and one unit of fine art), will be eligible for automatic admission to any of the University of Missouri campuses. An ACT/SAT score is required to be submitted by each student who applies to the University.

Further, any student who graduates from a school that does not rank its graduates, but who has taken a college preparatory curriculum which includes the 17 units of credit noted above and who achieves a 3.5 GPA on a 4.0 scale in these core courses will be eligible for automatic admission to any of the University of Missouri campuses. Again, an ACT/SAT score has to be submitted by each student who applies to the University.

**Additional Freshmen Admission Considerations**

The University seeks a heterogeneous body reflecting diversity of race, ethnicity, age, geography (national and international) and talent. Factors given prime consideration for admission to undergraduate study are an applicant's previous academic success and the quality of the record submitted. Additional factors may include:

- Extensive extracurricular activity involving school, church or community.
- Outstanding talent and/or ability.
- Number and scope of college preparatory courses.
- Evidence of marked improvement over time in the applicant's high school academic record.
- Significant work experience and/or family responsibilities.
- Supporting evidence attesting to one or more of the above, submitted by the student.
Additional Requirements

Applicants for the Conservatory of Music, Engineering programs, School of Pharmacy, and baccalaureate/M.D combined programs should consult the appropriate sections of this catalog for additional requirements.

Freshmen not meeting the requirements for regular admission will be reviewed for Trial Admission.

Transfer Admission

Students who have completed 24 or more semester hours of college-level work are eligible for admission if they have attained an overall grade-point average (GPA) of at least 2.0 (on a 4.0 scale) in all college-level courses attempted at previous institutions.

Note: Academic units may have more stringent requirements. Check the section of the catalog that describes the degree program and major you are seeking.

Regular Admission

Students transferring from other colleges or universities should submit the following to the Office of Admissions:

1. Completed UMKC application form at http://www.umkc.edu/admissions/apply. Domestic students, including Permanent Residents, Asylees, and Refugees, apply through the Office of Admissions; International students apply through International Student Affairs. Contact the appropriate office for paper application forms.
2. Nonrefundable application fee. The fee for a domestic online application is $35; paper application fee is $45. International student application fee is $50.
3. Official transcripts from all colleges and universities where coursework was attempted.

A transferring student who has completed fewer than 24 hours of college-level coursework must apply under the procedures for admission as a freshman and must have at least a 2.0 overall GPA in all college work attempted. These students must submit the following to the Office of Admissions:

1. High school transcript with class rank and ACT score (if less than 24 college credits).
2. Official transcript of all college courses completed and courses in which the student is currently enrolled.

Special Admission

Transfer students who do not have a 2.0 GPA are welcome to apply for admission; however, admission is not guaranteed and a student may be admitted on a probationary status.

Transfer Within the University of Missouri System

Students may transfer among campuses within the University of Missouri System. Any course that leads to an undergraduate degree on any campus of the University of Missouri System is accepted in transfer toward the same degree on each campus of the UM System offering that degree.
Students will have two cumulative grade-point averages. One is the campus GPA that will be calculated by procedures defined at the campus. The second is the University of Missouri GPA, which will include all grades and credits attempted at any University of Missouri campus, including all grades, credits and points for any courses that are repeated.

Any student attempting to transfer between University of Missouri campuses to UMKC should be aware that their cumulative University of Missouri GPA will be used to determine their admissibility.

**Transfer of College Credit from Other Colleges and Universities**

Refer to the Undergraduate Academic Regulations and Information section of the catalog.

Students who have completed an associates degree (AA or AS) from an accredited college or university and have a cumulative GPA of 2.0 (on a 4.0 scale) are admissible to the University, but not necessarily to specific programs. For the additional admission requirements of specific degree programs, refer to the appropriate sections of the catalog.

Articulation agreements and transfer equivalency tables can be found at http://www.umkc.edu/admissions/transfer.asp.

**Special Admission Cases**

**Trial Admission**

High school graduates who do not meet the standards for regular admission from high school may, in some cases, be admitted to the University on a conditional trial basis. If admitted, students may be required to participate in an academic support program as a condition of their admission. The student must earn a 2.0 grade-point average to be eligible to enroll the following semester.

Students can choose from several options during their senior year in high school or the summer before their freshman year to be considered for regular admission:

- Take coursework in the required area during the summer prior to the fall semester of their freshman year.
- Enroll in college-level coursework in the required area at an accredited community college or four-year institution.
- Complete the required coursework through correspondence or independent study.

**Early Admission from High School**

Superior high school students who have completed all of the requirements for graduation from high school but who will not receive a high school diploma until their class graduates will be considered for admission based on the criteria under Regular Admission from High School. The applicant's high school principal or counselor must certify that graduation requirements have been met and written parental approval is required.
Dual High School-University Enrollment

High school students may be admitted in a special student category for the purpose of taking University courses concurrently with high school courses.

Students interested in enrolling in dual credit classes taken at their high school for both high school and college credit should contact the High School College Partnerships.

High school students wanting to take college courses on UMKC's campus must submit a special application that includes high school authorization.

GED High School

Any individual may apply for admission on the basis of passing the General Educational Development (GED) tests. Passing scores must be achieved in each area of the GED. The student also is required to present an ACT composite score of 24. Students not meeting this criteria may be considered for a trial admission.

Home Schooled

Graduates of home schooled programs are required to have a minimum ACT composite score of 24 and completion of the 17 units of college-preparatory curriculum. Students not meeting this criteria may be considered for a trial admission.

Mature Adults

Students who graduated high school five or more years ago and have not attempted college level course work may apply for admission without submitting ACT or SAT scores.

Former Student Readmission

General

Former students who have not attended another institution since leaving UMKC and who were in good academic standing at the time they left, may be eligible to return to UMKC by completing a Request to Re-Enroll Form. Students should contact the Office of Admissions at (816) 235-1111 or admit@umkc.edu to determine if they may re-enter without reapplication.

Former students who have attempted college coursework at another institution since leaving UMKC and now wish to return must apply for readmission.

Academic Amnesty Policy and Procedures

See the Policies and Procedures section in the Appendix of this catalog.

Applicability of Previous Catalogs

UMKC 2012-13 Undergraduate Admission Policy & Procedures - 6
Current admission requirements as outlined previously will apply to applicants for readmission. Fulfillment of the general degree requirements in effect at the time of original admission may be selected by readmitted undergraduate students instead of current requirements, provided not more than one calendar year plus one term has elapsed since the last enrollment at UMKC and that they have not interrupted UMKC work by completing 12 or more semester hours at another college or university.

**Visiting and Community Student Admission**

Students from other institutions who wish to attend UMKC to transfer courses back to their home institutions may be admitted as Visiting Students for a term. Students are encouraged to check with officials at their home institution to guarantee that UMKC courses are transferable and fulfill their program's degree requirements.

Students who are members of the community and who do not wish to earn a degree at UMKC, but are not currently seeking a degree at another institution, may apply as Community Students.

Students may obtain a Visiting/Community Student Application form at http://www.umkc.edu/apply/visiting.asp or from the Office of Admissions. Not all academic programs are open to visiting/community students. Some academic units require that the non-degree seeking student be certified by the home institution as a student in good standing. Consult the application for specific program and course eligibility.

Students participating in the KCASE program are required to submit a visiting student application.

**Policy on Admission Credentials**

All credentials submitted in support of the application for admission become the property of UMKC.
**Timing of Applications**

The Office of Admissions will begin accepting admission applications June 1 of the year preceding the Fall Semester for which the student is applying. High school seniors will be evaluated on the basis of six or more completed semesters of high school work as well as standardized test scores (ACT/SAT).

**Dates of Application**

The preferred dates for admission application from high school are as follows:

- Fall Semester: Feb 1
- Spring Semester: Nov. 1
- Summer Session: May 1

However, applicants are urged to apply well before the above dates. To be considered for scholarships, students should be admitted by **Feb 1**. Some academic units have earlier deadlines. Refer to those sections of the catalog.

**Six-Year Medical Program**

Students interested in applying to the Six-Year Medical Program should refer to the School of Medicine section of the catalog to get information on application deadlines.

**PharmD. Program**

Students interested in applying to the PharmD. program should refer to the School of Pharmacy section of the catalog to get information on application deadlines.
**Metro Rate**
The Metro Rate is a program benefiting undergraduate and graduate, non-professional students who are legal residents of Atchison, Douglas, Franklin, Jackson, Jefferson, Johnson, Leavenworth, Miami, Osage, Shawnee, or Wyandotte counties in Kansas. These students will be assessed educational fees equivalent to those of a Missouri resident (the "in-state" rate). Questions about the Metro Rate may be directed to the Office of Admissions.

**Midwest Student Exchange Program**
The Midwest Student Exchange Program (MSEP) is an interstate initiative established by the Midwestern Higher Education Compact to increase educational opportunities for students in its member states. This program enables residents of Wisconsin, Kansas, Michigan, Minnesota, Missouri, Nebraska, Indiana, and North Dakota to enroll in designated institutions and selected programs at reduced tuition levels outside of their home state.
Visit Midwestern Higher Education Compact for more details.
Policies on Regular Admission - Medicine

General

The School of Medicine's Council on Selection carefully reviews applicants to the six-year combined baccalaureate/M.D. program. Academic potential, as evidenced by the quality of high school courses, rank in class and admission test scores, and personal qualities such as leadership in school or community, stamina, reliability, motivation for medicine and range of interests, are considered. Applicants who appear to be well qualified are invited to the UMKC campus for interviews. If invited, the applicants are notified in writing and required to be present at the scheduled date and time of the interviews. Residency in Missouri will be considered before all other factors in selecting students for this program. (See the School of Medicine section of the catalog for complete details.)

Admissions Test - Medical Program

The American College Testing Program, called the ACT, examination is required for all in-state applicants. The Scholastic Aptitude Test, called the SAT, is accepted for out-of-state applicants in some instances.

Deadline for Application - Medical Program

The deadline for application for Year 1 is Nov. 1 of the year preceding the one for which the student is applying. By this date, a completed application form must be received, and all other required credentials, application supplements, test scores, references and six-semester high school transcript, should be in process and sent as soon as possible. The earliest date for applying is Aug. 1 of the year preceding entry.

Other Requirements - Medical Program

An advance deposit of $100 is required upon acceptance.
Policies on Admission of International Students

General Admission Policies

International students are expected to meet the requirements for admission from secondary schools or from other colleges and universities as outlined below. Permanent Residents and students who have been granted Refugee or Asylee status apply through the Office of Admissions.

International students from secondary schools are expected to have an above average secondary school record and proof of adequate English proficiency, as well as a written statement of purpose.

International transfer students from other accredited colleges or universities must have above-average grades in all previous college study. Only credit appropriate to the curricula at this institution will be accepted toward a degree. Students transferring from other institutions in the United States must submit the International Transfer Form or other evidence of release from the previous program by their former foreign-student advisers and the equivalent of one semester's work at those institutions before admission will be granted.

An official statement of finances indicating sufficient funds available to meet all educational and other fees and living expenses for the duration of the studies is required.

A $50 application fee for new/renewal applicants is required. Application fees are non-refundable.

Priority Deadline for Application for Admission - International

UMKC generally follows a "rolling admissions" policy: i.e., admission action is taken as soon as the application file is complete. All international students should apply for admission (this includes taking all necessary tests and filing all required application forms and academic records) by the following priority deadlines:

Fall Semester: March 1*
Spring Semester: Oct. 1 *
Summer Session: January 1*
*For application for assistantships, scholarships, etc., the priority deadline is Feb. 1. Several academic units have different deadlines as outlined in the current admission application materials.

UMKC reserves the right to consider applicants for the most appropriate semester.

Required Academic Records - International

Students must provide complete and official certificates of all degrees, diplomas, mark sheets, grade reports and examination records. Secondary-school records must be submitted as well as college/university transcripts or credentials. All previous undergraduate work must include syllabi of courses taken with literal translations. If documents are in another language, applicants must also provide a literal English translation.
English Proficiency Requirement

International students are required to establish proof of adequate English proficiency as part of the admission process. However, some academic units allow conditional admission consideration (see "Conditional Admission" section below).

Applicants from countries in which English is not the native language (or if it is one of the official languages but is not necessarily the first language of the majority of the population) are required to present satisfactory Test of English as Foreign Language (TOEFL) scores or International English Language Testing System (IETLS) Scores to satisfy this requirement. The minimum score is 61iBT (internet Based Test) or a score of 5.5 on the IELTS. Exceptions to this policy:

1. Non-native speakers from post-secondary institutions in English-speaking countries [the full list of countries may be found here] provided they have spent a minimum of two years in successful full-time study and English was the medium of instruction.
2. UMKC accepts successful completion of ELS Language Centers Level 112 in lieu of TOEFL or IELTS.

For TOEFL information contact

TOEFL Services
The Educational Testing Service
PO Box 6151
Princeton, NJ 08541-6151 USA
http://www.ets.org/toefl

Request official TOEFL scores be sent to UMKC's institution code 6872.

For IELTS contact

The International English Language Testing System
http://www.ielts.org

Request official IELTS scores be sent to

UMKC International Student Affairs
Student Success Center, G-04
5100 Rockhill Road
Kansas City, MO 64110
Other Admission Policies - International

Credit by Examination/Transfer Credit

For information on UMKC credit by examination policy, the transfer credit policy and course equivalency tables, the student is referred to the International Student Affairs Web site (http://www.umkc.edu/isao).

Admission Deferral

An offer of admission, granted on a regular basis for a given term, may be deferred for up to one calendar year from the term first granted. However, if the applicant attends another college or university after the original offer of admission, a new application must be submitted and official transcripts of the additional work must be furnished.

Applicants must request such a deferral for a specific term by contacting International Student Affairs. This request should be submitted through ISA's online services at http://www.umkc.edu/isao/services. Individual financial support documentation must be renewed annually.

Provisional Admission - International

International Student Affairs is authorized by certain academic units to admit on a provisional admission basis when certain applicants have not been enrolled at UMKC before. This category of admission is designed for use just before a given term pending receipt of credentials and the determination of eligibility for regular admission.

Conditional Admission

Students with no TOEFL or low TOEFL may be considered for admission to certain academic programs. Contact International Student Affairs.

Post-Bachelor's Classification-International

If international students do not want to work toward an advanced degree or are ineligible for graduate-level credit, they may be considered for admission as bachelor's degree students if they file credentials with International Student Affairs that indicate an undergraduate degree has been earned from an accredited institution. Students may take undergraduate-level courses numbered 300 or 400 for undergraduate credit while in that status, but they may not enroll in courses numbered 500 or higher. In general, the previously outlined policies for admission of transfer students are applicable.
Exceptions - International

Exceptions to admission policies must be approved by the appropriate authority in the college or school to which the students are applying. International Student Affairs should be contacted regarding forms and procedures.

Registration with International Student Adviser

Admitted international students must first report to International Student Affairs for a check-in session prior to their first registration at UMKC. Once admitted, international students must show proper and regular progress toward their degrees.

Health Insurance

At each registration session, international students must present health insurance containing repatriation and medical evacuation. Effective fall 1998, international students are required to purchase exclusive, mandatory UMKC health insurance.

English Proficiency Evaluation

All international students subject to the TOEFL/IELTS requirement must be evaluated (unless they have scored 100iBT or higher on the TOEFL or 6.5 or higher on the IELTS) by the Applied Language Institute staff at UMKC regarding the level of their English proficiency. If any weakness in that level of proficiency is revealed, appropriate coursework will be required to assure that the student's success is not jeopardized.

More Information

International applicants to undergraduate programs who want more information and forms to apply for admission can go to http://www.umkc.edu/isao or write to

UMKC International Student Affairs
Student Success Center, G-04
5100 Rockhill Road
Kansas City, MO 64110 USA

Forms to apply for undergraduate admission can also be downloaded from the following website:  http://www.umkc.edu/apply.
**Application Forms**

**Online Application Forms**

Application forms and more information for

- Undergraduate Students
- Transfer Students
- Graduate and Professional Students
- International Students
- Visiting or Community Students
- Other special admissions information

can be accessed at http://www.umkc.edu/apply.

**Application Forms**

Paper application forms are available through the Admissions Office, International Student Affairs Office and the School of Graduate Studies.
Undergraduate Academic Regulations and Information

The Registration & Records Office (Web site http://www.umkc.edu/registrar) maintains all official academic student records. Additional responsibilities of this office include scheduling of classrooms, certifying student academic information, evaluating domestic transfer work, and reporting enrollment statistics to state and federal agencies. The Registration & Records Office, in cooperation with the academic units on campus, assumes the responsibility for monitoring and enforcing academic policies and regulations.

This section contains information on the general UMKC academic policies that apply to all undergraduate students. The faculties of the academic units may have more specific rules and requirements. Students are required to learn and abide by the policies of their academic unit in addition to the general policies.

Registration & Records Office
Administrative Center, Room 115
5115 Oak Street
(816) 235-1125
Fax: (816) 235-5513
registrar@umkc.edu
http://www.umkc.edu/registrar/
http://pathway.umkc.edu/
http://www.umkc.edu/quickguide

Mailing Address
University of Missouri-Kansas City
Registration & Records Office
AC 115
5100 Rockhill Road
Kansas City, MO 64110-2499

Registrar:
Douglas E. Swink

Associate Registrar:
Amy Cole

Assistant Registrar:
Amy Chester

Assistant Registrar:
Nicole Woolsey
Academic Calendar

The University operates on the semester system with the academic year divided into fall, spring and summer semesters which are also called terms. Fall semesters are 16 weeks long and start in August and end in December. Spring semesters are 16 weeks long and begin in January and end in May. The 16 week semester is inclusive of the final exams week. Summer terms are 8 weeks long during the months of June and July.

Sessions are scheduled within a semester/term and may have durations other than 16 or 8 weeks. Courses are occasionally offered during the periods between semesters/terms in January, May, and August. These periods are called intersessions.

Professional and graduate programs may adhere to different academic calendars with the permission of the Provost.

Please refer to http://www.umkc.edu/registrar/acal.asp for the most up-to-date academic calendar.

Academic Loads, Full- and Part-Time Status

Normal Academic Load
A normal academic load for undergraduate students during the Fall and Spring semesters is 15 credit hours. For Summer sessions, the normal load is 8 semester hours.

Full-Time Load
Undergraduate students enrolled in 12 or more credit hours of coursework are considered full-time students. For Summer sessions, six or more hours constitute full-time enrollment. The designation of full-time is for academic purposes only and does not apply to assessment of fees.

Overloads
Undergraduate registration in more than 17 semester hours must be approved by the academic unit. For Summer sessions, approval is required for programs of 9 or more semester hours.

Restricted Loads
Limitations on the size of academic load for which students register may be imposed by the dean or faculty adviser. Students on probation generally are required to restrict their academic programs to a minimal full-time load until they have returned to good standing.

Financial Aid - Summer Term - Academic Load Requirements:
Undergraduate degree seeking students who are enrolled in the summer term are required to be enrolled in a minimum of 6 hours in order to be considered half-time for loan eligibility in the Financial Aid & Scholarships Office and for loan deferment reporting to the National Student Clearinghouse.
Attendance Policy

General Principles

- Students are expected to attend and participate in classes.
- Advance notice of attendance policies of academic units and individual instructors should be given, and such notice should be in writing.
- Students should notify instructors of excused absences in advance, where possible.
- Students who have an excused absence are expected to make arrangements with instructors for alternative or make-up work. Such arrangements should be made in advance of the absence, where possible.
- Instructors should accommodate excused absences to the extent that an accommodation can be made that does not unreasonably interfere with the learning objectives of the course or unduly burden the instructor.
- Attendance policies shall be applied in a non-discriminatory manner.
- Enrollment as a student is required to attend any class unless otherwise pre-approved by the instructor.
- Instructors are responsible for verifying the class roster in Pathway throughout the term.

The Policy

Each academic unit and instructor may adopt an attendance policy appropriate to that unit, a particular field of study, or for a specific course. Such policy or policies must be consistent with the general principles, and must give students advance notice in writing. In the case of an academic unit, notice may be given in the appropriate section of the General Catalog, or in other materials provided to students for the purpose of informing them of the rules and regulations of the academic unit. In the case of an individual instructor, notice of an attendance policy should be given in the course syllabus.

If neither the academic unit nor the instructor has adopted an attendance policy, or if proper advance notice of the attendance policy was not given, the UMKC general attendance policy will govern. The general attendance policy is that students shall not be penalized for excused absences. "Excused absences" include absences due to illness of the student, illness of an immediate family member for whom the student must care, death of an immediate family member, religious observance (where the nature of the observance prevents the student from being present during class), representation of UMKC in an official capacity, and other compelling circumstances beyond the student's control. Students seeking an excused absence must provide documentation upon request to substantiate the excuse. Students with excused absences shall undertake appropriate make-up or alternative work to be provided by instructors of the courses in which excused absences were incurred.

Complaints concerning the application of an attendance policy or an instructor's attendance policy should be raised with the Department Chair of the instructor or with the Dean if there is no Department Chair or the instructor is the Department Chair. If the student or instructor is not satisfied with the resolution of the complaint, the matter may be appealed to the Dean and to the Division of Academic Affairs. Complaints concerning the adoption or modification of an attendance policy by an academic unit should be raised with the Division of Academic Affairs. Complaints are to be promptly addressed at each level of review.

This policy was approved July, 2002 and effective Fall, 2002; Revised Fall 2012
**Classification of Students/Student Levels**
Undergraduate students are classified by the number of semester hours completed at the beginning of each semester. A student with:
- Fewer than 30 credit hours completed is classified as a freshman.
- Fewer than 60 but at least 30 credit hours completed is classified as a sophomore.
- Fewer than 90 but at least 60 credit hours completed is classified as a junior.
- At least 90 credit hours completed is classified as a senior.

A student who has completed a bachelor's degree and enrolls only for undergraduate credit will be classified as a senior.

**Course Numbering**
Courses are numbered according to the following plan:

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-099</td>
<td>Remedial Courses (No college credit)</td>
</tr>
<tr>
<td>100-299</td>
<td>Lower Level Undergraduate Courses</td>
</tr>
<tr>
<td></td>
<td>Upper Level Undergraduate Courses</td>
</tr>
<tr>
<td>300-499</td>
<td>(Some upper level courses may be taken for graduate credit)</td>
</tr>
<tr>
<td>500-2999</td>
<td>Currently Not Used</td>
</tr>
<tr>
<td>3000-4999</td>
<td>Dental Hygiene Undergraduate Courses</td>
</tr>
<tr>
<td>5000-5999</td>
<td>Graduate Level Courses</td>
</tr>
<tr>
<td>6000-6999</td>
<td>School of Dentistry Courses</td>
</tr>
<tr>
<td>7000-7999</td>
<td>School of Pharmacy Courses</td>
</tr>
<tr>
<td>8000-8999</td>
<td>School of Law Courses</td>
</tr>
<tr>
<td>9000-9999</td>
<td>School of Medicine Courses</td>
</tr>
</tbody>
</table>

**Petitions for Exception to Normal Academic Policy**
Students have a right to appeal administrative policies or decisions with which they do not agree. Any such appeals, called Petitions for Exception, must be made in writing and submitted to the appropriate authority in the college or school in which the student is registered.

**Privacy Rights**
UMKC complies with the Family Educational Rights and Privacy Act (FERPA), which governs the release of student academic records. Student academic records are considered confidential between the student and the University, and will not be released to a third party without the written consent of the student except as provided within FERPA and UMKC policy. (For a detailed explanation, see Policy on Student Records in the Policy Section of the Appendices.)

Certain information about students is considered directory information and directory information may be released to anyone without a student's signed written consent unless the student submits a written request to restrict release of directory information. All students will be listed by name with address, e-mail and telephone number in a student directory which may be in electronic format. If release of information is restricted, a student's name and related information will be excluded from the student directory. Directory information restrictions may take up to 15 working days to process after the request is submitted by the student. All students' names will be printed in the commencement program regardless of the directory information restriction.
Transcripts

Official transcripts are issued only to other educational institutions, employers, state departments of education and similar agencies. Transcripts are issued at the written request or authorization of students. Students may secure a transcript of their UMKC permanent academic records from the UMKC Registration & Records Office. Transcripts stamped "Issued to Student" are not considered official by UMKC. Partial transcripts of permanent academic records which contain only a portion of the courses completed at UMKC are not issued. No transcript may be issued to or for students who are indebted to the University until the debt has been cleared.
**Academic Standing**

- **Academic Amnesty**

  - **Academic Probation and Ineligibility**

- **Deans List**

**Academic Amnesty**

The University of Missouri-Kansas City has an amnesty policy to enable those students who did not perform adequately in their undergraduate enrollment at UMKC to be given a second chance to pursue their undergraduate academic goals. The policy is as follows:

A student may apply for amnesty if s/he meets the following two requirements:

- Has not been enrolled at UMKC at any time during the past two years
- Applies for amnesty at the time of the application for readmission or before the end of the first semester of readmission if already readmitted

**NOTE:** Amnesty for prior terms at UMKC will not be considered for students who are enrolled or are enrolling at schools other than UMKC. Amnesty only applies to UMKC undergraduate courses and is not applicable to transfer work or graduate work. Only students who are readmitted at the undergraduate level at UMKC are eligible to apply for amnesty.

Amnesty will be implemented as follows:

- Grades for **ALL** courses taken in the period of time for which amnesty is requested will be removed from the grade point average if the request is approved. The student may not choose specific courses.
- The original grade will remain on the student’s transcript, but will be marked by an “X” preceding the grade. For plus/minus grades, the plus or minus will be dropped and the base grade will be used. For example, grades of A, B+, B, B-...F would be changed toXA, XB, ...XF. These hours and grades will remain on the transcript, but will not count toward cumulative hours nor GPA, nor can they be used to fulfill any degree requirements, regardless of the original grade.
- A statement “Grades granted amnesty by faculty committee action” (or similar) will follow the last course on terms granted amnesty.
- When amnesty is approved, changes to the transcript will be made after the fourth week of classes in the term in which the student re-enrolls. If the student withdraws before the end of that term, all course grades will be changed back to the grades that appeared prior to amnesty.
- Students can receive amnesty at UMKC only one time (for one or multiple terms) in their lifetime.

**Academic Probation and Ineligibility**

Undergraduate degree-seeking students' academic status is assessed at the end of every term, whether the student is full-time or part-time for that term. A summer session is considered the same as a semester for the purpose of the following regulations:

1. In general, students will be placed on academic probation whenever their official UM grade-point average falls below 2.0 (C average). Some academic units may have a higher grade-point average requirement. First time college freshman admitted to UMKC on the basis of high school records,
who have grade-point averages between 1.50 and 1.99 at the end of the first semester of either full- or part-time study will be placed on academic warning. Students on academic warning must achieve an overall 2.0 average by the end of their second semester or be placed on regular probation. After that, they would be subject to the regular probation requirements.

2. Students on academic probation will be restored to good standing whenever the UM grade-point average reaches 2.0 or the GPA level established by their academic units.

3. Students on academic probation must maintain the grade-point average required by their academic units during each subsequent semester or summer session while they are on probation. Otherwise they are ineligible to re-enroll without the approval of the academic units.

4. Students on academic probation must remove themselves from probation within three successive semesters (including the semester in which they originally were placed on probation). Otherwise they are ineligible to re-enroll without the approval of the academic units.

5. Students are responsible for knowing their academic status by referring to Pathway and their permanent transcript.

**Dean’s List**

The Dean’s List is a unit-based student-centric recognition of excellent academic performance. Students must complete a minimum full-time program of 12 graded hours to qualify for the dean’s list. The credit/no credit option may not be used as part of the 12 graded hours. The permanent academic records for qualifying students are annotated to reflect this distinction. Official grade reports indicate students who are candidates for the Dean’s List. Criteria for determining the GPA required for a student to be included on their unit Dean’s List will be determined by the unit Dean. The specific criteria will be published in the unit undergraduate catalog. Dean’s List criteria will be reviewed annually by each academic unit (College/School) and changes in requirements will be submitted in writing to the Registrar by February 1 each year for inclusion in the next academic catalog.
**Grading Options and Auditing Courses**

**Grading**

The following is the grading and grade-point system at UMKC:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Description</th>
<th>Points per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>The highest grade</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td></td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>Work of distinction</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td></td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>Average work</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td></td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>Passing, but unsatisfactory</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td></td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>Failure without credit</td>
<td>0.0</td>
</tr>
<tr>
<td>NR</td>
<td>Not Reported</td>
<td>0.0</td>
</tr>
<tr>
<td>WF</td>
<td>Withdrew failing</td>
<td>-</td>
</tr>
<tr>
<td>W</td>
<td>Withdrew; no academic assessment</td>
<td>-</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>-</td>
</tr>
<tr>
<td>AT</td>
<td>Audit</td>
<td>-</td>
</tr>
<tr>
<td>CR</td>
<td>Credit only</td>
<td>-</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
<td>-</td>
</tr>
<tr>
<td>P</td>
<td>Passing</td>
<td>-</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
<td>-</td>
</tr>
</tbody>
</table>

Beginning Fall 2012 a WF is not calculated in the GPA for undergraduate students.

In terms prior to and including 1985, any of the above grades might be preceded by an R indicating a repeated course. These grades are not included in either total hours or the grade-point average. (Examples: RC, RD, RF.) Since 1985, all grades, including those in repeated courses, are included in the GPA calculation. For the 1993 Fall Semester, UMKC began using the plus/minus grading system for grades A, B, C, and D. The grade of A+ is valid only for students in the School of Law.
Grade Appeals

Students are responsible for meeting the standards of academic performance established for each course in which they are enrolled. The establishment of the criteria for grades and the evaluation of student academic performance are the responsibilities of the instructor.

This grade appeal procedure is available only for the review of allegedly capricious grading and not for review of the instructor's evaluation of the student's academic performance. Capricious grading, as that term is used here, comprises any of the following:

The assignment of a grade to a particular student on some basis other than the performance in the course.

The assignment of a grade to a particular student according to more exacting or demanding standards than were applied to other students in the course; (Note: Additional or different grading criteria may be applied to graduate students enrolled for graduate credit in 300- and 400-level courses.)

The assignment of a grade by a substantial departure from the instructor's previously announced standards.

Appeal Procedures

1. The student should first discuss the course grade fully with the instructor of the course. This must be done within six weeks after the beginning of the succeeding regular academic semester.

2. If the matter cannot be resolved by consultation with the instructor, the student should use the departmental grade-appeal procedure. Every academic unit (school, College or department) must have a set of appeal procedures that are to be made available to students on request. These procedures will specify the manner in which the departmental review of the challenged grade will be conducted.

3. If the matter is not resolved at the departmental level, an appeal can be made to the academic dean, in accordance with the school's or College's appeals process. The decision of the dean will be communicated to the student, the instructor and the department.

4. If the matter is not resolved within the school or College, the student may appeal to the Provost. This appeal must be made within 10 consecutive calendar days after notification of the decision of the dean.

5. The Provost or designated representative shall review the full record of the case and appeal documents. At this level, the Provost may appoint an ad hoc academic appeals committee to review the record and provide advice on the matter. The decision of the Provost is final and will be communicated to the student, the instructor, the department and the dean of the school or College.
**Grading Options and Auditing Courses**

**Auditing a Course**

A student must obtain the consent of the instructor in order to audit a course. Courses that ordinarily may not be audited are studio courses in art, performance courses in the Department of Communication Studies and laboratory courses in the sciences.

A student registered in a course for audit is expected to attend class. Therefore, an auditor may be administratively withdrawn from a course when, in the judgement of the instructor and upon approval by the dean, the attendance record justifies such action.

**Change from Audit to Credit**

Students may change status in a course from audit to credit during the first week of the term provided they have approval of the faculty and academic unit. This change must be initiated in the advising office of the appropriate academic unit and must be completed in the UMKC Registration & Records Office.

**Change from Credit to Audit**

Students may change their status in a course from credit to audit any time prior to the end of the fourth week of any Fall or Spring semester, or prior to the end of the second week of any summer session. This change must be initiated in the advising office and must be completed in the UMKC Registration & Records Office.

**Credit/No Credit Option**

Sophomores, juniors and seniors in good standing may elect to take one course per semester on a credit/no credit (CR/NC) basis. The credit/no credit option may not be used for courses in the major nor the minor, nor for courses taken to fulfill the general degree requirements. Students may not elect this option when they are repeating a course.

The credit/no credit option must be elected at the time of initial registration for a term and cannot be changed subsequently. A grade of C- or better must be earned to earn credit; D and F grades receive no credit. Grades of CR or NC do not earn grade points and they do not affect the grade-point average. Courses elected on this option are subject to regular academic regulations, including course load, withdrawal, etc.

The credit/no credit option is not available for students pursuing a bachelor of liberal arts degree.
Grade-Point Average

The following minimum grade-point average policy applies to all undergraduate students:

- Students must maintain a 2.0 GPA in their coursework at the University of Missouri.
- Academic units may impose additional grade-point requirements.
- In general, the UM GPA is calculated by dividing the total grade points earned in courses on any UM campus by the total number of graded semester hours attempted. If a course attempted within UM is repeated, the previous hours and grade point remain in the student's GPA. Courses taken credit/no credit, courses earning grades of S, P, I or AT, and courses transferred from non-University of Missouri institutions are not included in the UM GPA calculations.

Incomplete Grades

An instructor may assign the grade of I (incomplete) to students who have been unable to complete the work of the course because of illness or serious reasons beyond their control. An incomplete grade is appropriate only when enough work in the course has been completed for students to finish the remaining work without re-enrolling in the course or attending additional classes. The work must be completed within one calendar year or the incomplete grade will automatically lapse to an F.

Repeated Courses

When undergraduate students repeat courses, they can request to have only the grade for the final attempt used in calculating their GPA. THE COURSE REPEAT POLICY WILL NOT AUTOMATICALLY BE APPLIED TO A STUDENT'S GPA. After completing a retaken course, a student must submit a REQUEST FOR GPA ADJUSTMENT FORM to his/her academic advisor. The recalculation of a student's GPA is reflected only in the calculation of that student's current cumulative GPA and will not retroactively affect calculations for dean’s list, graduation and honors, eligibility for financial aid and veterans’ benefits and scholarships, athletic eligibility, discounts for insurance, or any other area.

- The GPA recalculation policy is applicable only to undergraduate students who repeat a course in which they earned a D+ or less and in which academic dishonesty was not involved.
- Students can only replace grades if the original and the repeated course are taken at UMKC.
- Repeated courses must be taken Fall 2007 or later.
- Repeated courses may not be taken on a CR/NC basis.
- Original grades cannot be replaced with a 'W', 'WF', 'I', or 'T.'
- No more than 15 semester hours can be dropped from the calculation of a student's GPA by repeating course work.
- Requests approved for GPA recalculation will prefix the original grade with an "R."

Transcripts will note that such grades are excluded from GPA calculations.

Refer to the appropriate School or College section of the undergraduate catalog for information on specific rules for course repeats. Some academic units may have more stringent requirements on course repeats.
**Graduation**

Students who anticipate graduating must file an application for graduation before the end of the fourth week of the semester in which they intend to graduate. Commencement is optional and participating in commencement does not mean that a student has graduated. The application for graduation triggers a degree check. The degree check is conducted following the recording of grades for the semester in which the student anticipates graduation. All degree requirements must be fulfilled, including documentation of all requirements in UMKC's Registration & Records Office before the next semester after anticipated graduation begins. Diplomas may be picked up in person in the Registration & Records Office beginning 40 days following the last day of the semester. Diplomas that are not picked up in person will be mailed two weeks after they are initially made available. Replacement and duplicate diplomas can be ordered for a small fee from UMKC Registration & Records Office.

**Declaration of Major**

Following the completion of 60 credit hours of acceptable college work, students must complete the Declaration of Major form from the UMKC's Registration & Records Office and obtain signatures from the designated dean's representative. Students who want to change an officially declared degree program must repeat the declaration process.

Baccalaureate degree-seeking students must fulfill the specific requirements for a degree program as outlined in the appropriate catalog section. Regardless of the number of hours transferred, a minimum of 12 hours in the major field of study must be earned in residence at UMKC. Check with an academic adviser for information on the number of departmental residence hours required for a specific degree program.

**Multiple Major & Double Degree Policy**

A multiple (double or triple) major may be earned when a student completes two or more full majors, generally within the 120 hours required for a single degree. The specific major requirements of each major must be fulfilled. The diploma will indicate all majors. If the two or more degree programs are administered by different academic units, the major requirements of each academic program must be fulfilled. The general education requirements must be fulfilled as specified by the department or academic unit responsible for the primary major only. The double or multiple major is only available in B.A./B.A. or B.S./B.S. combinations.

A double degree may be earned when a student completes a minimum of 150 hours, completing the general education and major requirements for each of two majors. Students who earn a double degree will receive two diplomas simultaneously. If the two degree programs are administered by different academic units, the general degree requirements and major requirements of both academic units must be completed.

The B.A./M.D. dual degree program has different requirements and is subject to separate regulations. See the School of Medicine section of the catalog.

All dual degree programs must follow the established guidelines in the UMKC catalog.
Changes in Degree Requirements

The University of Missouri reserves the right at all times to discontinue, modify or otherwise change its degree programs when it determines it is in the best interest of the University. Students have the following options:

- Students who enter as first-time freshmen or transfer students may fulfill the degree requirements in effect at the time of their original admission to their degree program, provided there has not been a lapse in attendance at UMKC of more than one consecutive calendar year plus one term.
- Students accepted into any two-plus-two program (between UMKC and a community college) may fulfill the degree requirements in effect at the time of their original admission to the community college, provided no more than two years have elapsed since that original admission and enrollment has been continuous.
- Students may fulfill degree requirements in effect at the start of their senior year, provided that they have not had a lapse in attendance during the senior year at UMKC of more than one consecutive calendar year plus one term.

Minimum Hours

The general minimum UMKC requirement in semester hours of acceptable college work for an undergraduate degree is 120 semester hours (150 for a double degree). However, a number of undergraduate and first professional degrees have higher minimum requirements as indicated in the specific school's section of this catalog. A minimum of 30 hours must be earned at UMKC, regardless of the number and level of hours earned at another institution.

Assessment Requirements

The University of Missouri Board of Curators, other state entities, and the national college accrediting agency require the University to assess the effectiveness of academic programs. All undergraduate students must take a test of general education and complete a major field assessment prior to being granted a baccalaureate degree. Graduation depends on completion of assessment requirements.

Written English Proficiency Test (WEPT)

Candidates for all baccalaureate degrees must pass the UMKC Written English Proficiency Test before enrolling in required junior-level writing or writing intensive courses. Students who register for the required junior-level course without first passing the WEPT may be removed from enrollment or may not receive credit for the course. Students should take the test after completing the second required English composition course and after completing 45 hours of credit. Students who have not completed English Composition I and II will not be allowed to take the test.

The WEPT is given twice each fall and spring semester and once in the summer; the dates of the test appear regularly on the Academic Calendar in the Schedule of Classes. Students should visit the WEPT website for the most up-to-date information about taking the exam. To register for the WEPT, students should log on at http://www.umkc.edu/WEPT.

For information about WEPT tutoring and WEPT workshops; please contact the Writing Center at 235-1146. For more information about all other concerns, please contact the WEPT Coordinator, Lindsey Martin-Bowen at bowenlm@umkc.edu.
Junior-Senior Hours
Undergraduate degree-seeking students are required to earn credit in at least 36 credit hours of coursework numbered 300 and above at UMKC. In the case of transfer credit, the coursework must be numbered as junior-senior level work by the transferring institution.

Residence Requirements
The final 30 consecutive credit hours of coursework must be taken at UMKC. Students must be registered in the College or school in which the degree is awarded. In "Completion Programs" at another institution, the final 30 hours prior to enrollment at the completion program institution must be taken at UMKC.

General Course Requirements
The individual academic unit sections of the catalog are the official sources of details on the general course requirements pertinent to the different degrees.

Time Limit on Degree Credit
Credit over 15 years old at the time of application for graduation may not be applicable to a degree. Such credit may be subject to validation, at the discretion of the school/department involved, before it can be used to satisfy degree requirements.

Application for Graduation
Written application for graduation is required and should be filed before enrolling in the final 30 credit hours of coursework. Students should turn the graduation application form into their home School or College (Academic Unit). The academic unit will send the graduation application to the Registration & Records Office. The application must be submitted no later than the deadline date published each semester in the on-line UMKC Academic Calendar in order to graduate for that semester.

Graduation with Latin Honors
Students are eligible to be awarded their degrees with Latin Honors (Summa Cum Laude, Magna Cum Laude, Cum Laude) as determined by each of the academic units (College/School) using fixed overall GPA requirements. These fixed GPA requirements will be reviewed annually by each academic unit (College/School) and changes in requirements will be submitted in writing to the Registrar by February 1 each year for inclusion in the next academic catalog.

The calculation for Latin Honors will be made using the GPA of the last 60 hours earned. Students may be awarded one Latin Honors regardless of the number of degrees the student earns.

Latin Honors may be published for commencement but will be provisional until the degree is conferred.
**Registration**

Eligible students may register during the registration period that is announced in Pathway and via UMKC e-mail. Students who are not registered will not receive academic credit and cannot attend classes. All registration and changes in registration must be processed by the UMKC Registration and Records Office either in person or using an approved electronic format such as Pathway.

A class schedule is published prior to each semester in Pathway and lists courses offered, meeting times and locations. The University reserves the right to cancel without notice any course listed in the schedule for any semester, or to withdraw any course that does not have adequate enrollment at the close of the registration period.

**Additions**

Eligible students may register during the registration period that is announced in Pathway and via UMKC e-mail.

Students who are not registered will not receive academic credit and cannot attend classes.

All registration and changes in registration must be processed by the UMKC Registration and Records Office either in person or by using an approved electronic format such as Pathway.

A class schedule is published in Pathway prior to each semester and lists courses offered, meeting times and locations. The University reserves the right to cancel any course listed in the schedule without notice.

**Adding a Class**

Students may add a class to their official records through the first week of classes for a regular session.

Students who are not enrolled at the time a semester begins are subject to an additional fee.

Additions of courses after the first week of classes are deemed unusual and therefore require the approval and signatures of advisors and the instructor of record.

**Drops**

Eligible students may register during the registration period that is announced in Pathway and via UMKC e-mail. Students who are not registered will not receive academic credit and cannot attend classes. All registration and changes in registration must be processed by the UMKC Registration and Records Office either in person or using an approved electronic format such as Pathway.

A class schedule is published prior to each semester in Pathway and lists courses offered, meeting times and locations. The University reserves the right to cancel without notice any
course listed in the schedule for any semester, or to withdraw any course that does not have adequate enrollment at the close of the registration period.

Eligible students may drop during the drop schedule period that is provided in the Academic Calendar.

Eligible students may drop classes without academic assessment from the point of initial registration through the first 25% of a session, which is the first four weeks of a 16-week fall or spring semester.

If students drop all of their classes prior to the end of the first four weeks of the semester, a notation is placed on their transcript that indicates the date the classes were dropped. Students who drop all of their classes during the first four weeks of the semester are required to follow the Total Withdraw Policy.

**Withdrawals**

Eligible students may withdraw from their classes during the withdraw schedule period that is provided for each session of a semester/term in the Academic Calendar. *(Note: Students with the intent to withdraw from all of their classes must follow the Official/Total Withdraw Policy.)*

Students in a 16-week session follow the following schedule:

After the fourth week through the eighth week students will receive an automatic W on their transcript.

After the eighth week, students will be assessed academically and, if they are failing at the time of withdrawal, they will be given a grade of WF (withdrawn failing) at the discretion of the faculty member. A WF is not calculated in the grade-point average. *(Note: No retroactive WF changes will be made for any semester prior to Fall 2012.)*

After the twelfth week students must petition their home academic unit before being allowed to withdraw from a course.

Students in 8-week courses follow a similar schedule. See the academic calendar for specific dates.
Total Withdrawals

Official withdrawals may be done by mail when a student is unable to appear in person (for example, if you are out of town or suffering from an illness or accident) or if the Registration & Records Office is closed or Pathway is down (for example, during a power outage) and you wish to receive a refund. The postmark on the envelope is used as the refund date.

Transcript notations are determined based on the time of the semester the withdrawal occurs.

Students wishing to withdraw from all of their classes must complete an exit interview questionnaire available at https://www.umkc.edu/stu-aff/exit/login.cfm.

The following actions are not considered official notification of withdrawal.

- Assuming classes will be cancelled because of nonpayment of tuition and fees by the student.
- Failure to attend class.
- Giving notice to an instructor.
- Stopping payment on a check used to pay fees.
- Crossing out courses on a schedule.
- Returning only partial payment to the Cashier's Office.
- Verbal notice to any University office or employee.

Retroactive Withdrawals

A student may petition for Retroactive Withdrawal from a course(s) or from the university (all courses taken during that semester), if circumstances of a serious and compelling nature prevented the completion of course work and extenuating circumstances prevented submission of a regular withdrawal petition by the deadline on the Academic Calendar. In filing a Petition for Retroactive Withdrawal, withdrawal from all courses taken during the term in question is normally expected since 'extenuating circumstances' are not course-specific.

Petitions must be submitted to the School or College (academic unit) where the student’s current major is housed. Each academic unit will assemble a retroactive withdrawal committee that will make decisions on all retroactive withdrawal petitions. Approved retroactive withdrawal petitions which require a change of grade will follow standard change of grade procedures. A copy of the approved petition and supporting documentation should be attached to the grade change form when it is submitted to the Registration and Records office.

Petitions that are approved by the home academic unit for courses that reside outside of the home academic unit will be forwarded to the host academic unit retroactive withdrawal committee along with all supporting documentation. The host retroactive withdrawal committee will forward their decision back to the home academic unit.
If the petition for retroactive withdrawal is denied by either home or host retroactive withdrawal committee, the student has the right to appeal the decision to their home academic unit Dean. The decision of the home Dean is final.

If the home academic unit Dean approves a petition for coursework that is housed in a host academic unit, the paperwork will be forward to the host academic unit Dean for a decision. The host dean will forward their decision back to the home academic unit. The decision of the host Dean is final.

Students who submit a retroactive withdrawal are not typically candidates for fee refunds. For courses taken while enrolled in the Interdisciplinary Ph.D. program in the School of Graduate Studies and the Schools of Dentistry, Law, Medicine, and Pharmacy, students should refer to the retroactive withdrawals policies and procedures of these schools as they may have more stringent requirements.

**Students are not a candidate for retroactive withdrawal if any of the following conditions are true:**

- You are applying because you are not satisfied with the grade you earned.
- You are applying because you neglected to formally withdraw from the course(s) in question.
- You were not aware of the withdrawal deadlines.
- You changed your major and are now working towards a major or degree which does not require this course.
- You assumed non-academic activities which restricted your time for academic pursuit.
- You were ill or you suffered stress as the result of an accident, death, family crisis, or other crisis early enough in the semester to have withdrawn during the semester.
- You have already received a UMKC degree for which the course(s) in question were applied towards degree requirements and/or your UM GPA.
- If any of the above are found to be true of your case, your request for retroactive withdrawal will be denied.

**Students may be candidates for retroactive withdrawal if any of the following conditions are true:**

- There was a documented administrative error that affected your enrollment in one or more courses.
- You have documentation of a serious illness that affected your ability to complete all of your coursework after the withdrawal date.
- You encountered documented extreme and unusual circumstances which a) were beyond your control, b) occurred after the withdrawal date, and c) could not have been addressed during the term in which the course(s) was taken.

**Process for submitting a Retroactive Withdrawal Petition:**

1. To withdraw retroactively from the university or specific courses, the student must present official supporting documents which demonstrate serious and compelling reasons (usually due to
serious accident or illness) justifying the withdrawal and extenuating circumstances justifying its 'retro' nature.

2. The student collects supporting documentation submits the entire package (Retroactive Withdrawal form and official supporting documentation) to the School or College where their major is housed.

3. All decisions will be made by each School or College Retroactive Withdrawal or Petition for Exception Committee.

4. Individual instructor’s feedback should be considered with all petitions.

5. Once a decision is made the home School or College will send all documentation to the Registration & Records Office.

*The retroactive withdrawal policy is effective as of Summer 2010 and applies to all students, regardless of the catalog year the student entered the University*

**Class Waitlist**

A class waitlist provides an option for students to indicate they want to enroll in a class that has reached its authorized capacity and is closed. A student on a waitlist is not officially enrolled in that course and thus is not eligible to receive a grade in that course.

*Each department determines which classes will be available for waitlist and the waitlist capacity.*

Each section with a waitlist may have a different maximum number of students who can be on the waitlist at the same time.

Waitlists will be available through the end of the third day of classes at the beginning of each term’s open add/drop period.

A student gets on the waitlist at the time he/she attempts to enroll in a full class section by checking the "OK to Waitlist" checkbox that will be displayed when enrolling in a class. If there is no waitlist or the waitlist is full, the "OK to Waitlist" checkbox will not appear as an option when a student attempts to register for a class in Pathway’s Self-Service Enrollment. A student can be moved from the waitlist to enrolled status by:

   System intervention: An automated nightly process will automatically move eligible students from the waitlist to enrollment. After the last automated process is run at the end of the third day of classes, students will need to be signed in to the course on a registration form.

Students are ineligible to be automatically enrolled from the waitlist for the following reasons:

- They have a time conflict with another class;
- They are already enrolled in another section of the course;
- They would exceed their maximum term units;
- They do not meet requirements of the course (for example, reserved for majors only);
- They have a registration hold;
• The class is full.

Students who are enrolled via the waitlist are responsible for reviewing and making any other changes to their schedule. Instructors have the right to increase course capacity to allow specific students to enroll in their class. Students will only be enrolled from the waitlist provided the enrollment does not exceed the room capacity designated for the class.

Cancellation of Enrollment for Financial Delinquency

Classes are not automatically canceled for non-payment. It is the responsibility of all students to withdraw from classes if they will not be attending the semester. If a student withdraws from classes, he or she may still owe the University full or partial fees in accordance with the UMKC fee refund policy. A minimum payment is required by the first payment deadline regardless of when a student registers in courses for a given semester. Pending financial aid and scholarships do not constitute a minimum payment of fees if an outstanding balance remains. If anticipated financial aid is not received or is not sufficient to cover charges, the student remains responsible for all or remaining charges incurred for the semester.

Concurrent Enrollment

Students may not earn and apply degree credit from another college or university at the same time as earning degree credit at UMKC except with the prior approval of the UMKC academic unit involved. Notification of this exception when approved by the academic unit must be forwarded to the UMKC Registration & Records Office.
Transfer and External Sources of Credit

Transfer students should refer to the policies and procedures outlined in the Undergraduate Admissions section of the catalog when seeking admission to the University. UMKC accepts credit in transfer from regionally accredited institutions of recognized standing, both public and private. It also awards credit through examination programs as described in the Credit by Examination section of the catalog.

The Registration & Records Office applies established guidelines and precedents in determining transfer course equivalencies and applicability, as listed below. A student's academic unit is responsible for all final decisions on the applicability of transfer coursework, and must review and approve any exceptions that may be made for an individual student.

Transfer credit is evaluated and posted according to the following general guidelines:

- **All undergraduate college coursework attempted** at accredited institutions will be recorded on the UMKC transcript of students seeking an undergraduate degree, regardless of whether or not it is applicable to a UMKC degree. Credit accepted from another institution may or may not be applicable to specific degree programs. The University reserves the right to make the decision regarding applicability.

- Courses that are remedial, preparatory or non-college-level will not be added to the total hours or used to satisfy degree requirements. The Registrar's Office will refer to the transcript key or catalog of the sending institution in making a determination as to the level or purpose of the course in question.

- Transferred courses will be considered upper-division (junior-senior level) and count toward the total number of upper-division hours required if they are earned at a four-year institution and designated by that institution's course numbering system as upper division courses.

- A transferred course will retain the original number of credit hours for which it was taken at the previous institution, even if the equivalent UMKC course is worth a different number of hours.

- Courses transferred from institutions which award quarter hours will be converted into semester hours at the rate of 1 quarter hour = 2/3 semester hour.

- In general, courses with a grade of *D or higher* will receive full credit in transfer. For some degree programs, a course with a grade of D may not be used to satisfy specific requirements. A transfer student would be required to repeat a specified course on the same basis as a "native" UMKC student who earned a D in the equivalent course.

- Coursework of any age will be accepted in transfer to satisfy general education requirements and electives. If transfer credit is more than 15 years old, or of a specific technical or scientific nature, students may be required to repeat courses that are part of a major or field concentration. Individual UMKC academic units may impose more restrictive coursework age requirements.

- Non-University of Missouri System *grades and grade points* do not transfer, although the grades earned in transfer courses are printed on the transcript. An admission grade-point average that considers all attempted coursework is computed at the time of application, and an overall GPA will be computed at any time a student applies for admission to a more selective program within the University. The UMKC transcript reflects the total number of accepted hours earned from all sources, but only calculates the UMKC/UM grade-point average. Students transferring into UMKC with a certified core should see the appropriate School or College section of this catalog for requirements beyond the core to complete a specific baccalaureate degree.
Transferring Within the University of Missouri System

University of Missouri Policy states that "Any course that leads to an undergraduate degree on any campus of the University of Missouri shall be accepted in transfer toward the same degree on each campus of the University offering said degree." Students transferring within the UM system are still required to satisfy the course and residency requirements of the campus from which they wish to graduate. Grades, including D and F grades, and grade points earned will also transfer and be included in the cumulative UM grade-point average.

For more information contact the following offices –

University of Missouri – Columbia Office of Admissions, 800-225-6075, mu4u@missouri.edu

University of Missouri-Kansas City – Registration & Records Office, 816-235-1125, registrar@umkc.edu

Missouri University of Science and Technology – Registrar’s Office, 573-341-4181, registrar@mst.edu

University of Missouri – St. Louis - Office of the Registrar, 314-516-5545, registration@umsl.edu

Transferring from a Community or Junior College

The University of Missouri-Kansas City abides by the Coordinating Board of Higher Education articulation agreement between Missouri public institutions. The agreement with CBHE states that students who have earned an associate of arts degree from a Missouri institution that requires, at minimum, the general education core outlined by the CBHE, and a 2.0 GPA, will be admitted with junior standing and considered to have completed the lower-division general education requirements. This does not exempt the student from meeting the requirement for foreign language or any specialized lower-division degree requirements specified by the academic unit. Particular programs within the University require a higher GPA and/or specific prerequisite courses to be completed before admission.

Courses taken at a community or junior college not culminating in an associate's degree, courses taken at a community or junior college beyond the associate's degree, and courses/degrees transferred from an institution outside the State of Missouri without an articulation agreement with UMKC will be evaluated for applicability to any particular degree program on a course-by-course basis. Regardless of the number of hours transferred from a community or junior college, at least the final 30 hours must be earned at UMKC.

Credit by Examination

Credit by Examination - UMKC offers superior students options to enhance or accelerate their academic programs through credit by examination. Students may earn college credit by demonstrating sufficient knowledge or proficiency in a certain area. The Registration and Records Office provides detailed information regarding the specific exams accepted and scores required. Students may earn up to 30 semester hours of credit through the following options:

Advanced Placement (AP) examinations may count for UMKC degree credit if the exams and scores are acceptable. (Note: UMKC awards credit for specific scores on certain Advanced Placement exams that are administered by the College Board, not simply for enrollment in
advanced placement courses at the high school level. In order to receive AP credit, students must have official AP score reports sent to UMKC directly from the College Board. Credit cannot be determined from high school or previous college transcripts.)

**International Baccalaureate** (IB) examinations are tests taken as the culmination of a special high school study program. Several of the Higher Level exams count for credit if the score earned is a 5 or higher.

**College Level Examination Program** (CLEP) exams are acceptable for credit in certain areas of study. UMKC accepts only the CLEP Subject Exams. Not all subjects are accepted. Credit is not given for any CLEP General examination. No CLEP Subject Exam may be taken in the final 30 hours of coursework leading to a degree.

**Credit by Departmental Examination** may be earned if a student has previous knowledge or proficiency in an area of study and arranges to take a departmentally administered examination. If a department chooses to offer credit by examination, the department must provide a test that measures the same level of proficiency as is required to earn credit for enrollment in the course. Frequently this is the final exam for the course. Before taking a departmental examination, students must register in the Registration and Records office and obtain a Credit by Departmental Examination form:

(http://www.umkc.edu/registrar/forms/credit_by_exam.pdf).

The charge for attempting credit by departmental exam is equal to one credit hour.

Eligibility for credit by departmental examination requires:
1. Enrollment at UMKC in the semester in which the examination is administered.
2. No enrollment in the course that is subject of the examination during the last three terms.
3. Achieve a grade of C or above on the examination in order to receive credit.

**Correspondence and Extension Credit**
A maximum of 12 semester hours of correspondence or extension work from an accredited institution will be accepted in transfer provided the work parallels UMKC's offerings. Up to 30 hours of distance learning credit may be used to satisfy degree requirements subject to approval by the undergraduate student's academic unit.

**Credit for Military Training**
Students who have served in the armed forces may be eligible to receive college credit for courses completed through the military or occupational specialty training. The American Council of Education recommendations in *A Guide to the Evaluation of Educational Experiences in the Armed Services* generally serve as a basis for granting such credit. To count toward a degree, the credit recommended must be appropriate to the student's curriculum. UMKC does not grant credit for military science or for courses that are strictly military/vocational in content.
Missouri Higher Education Articulation Agreement

The Missouri Coordinating Board for Higher Education (CBHE) has adopted statewide general education goals to facilitate transfer among Missouri institutions of higher education. To that end, signatory schools have selected courses to meet these goals and to fit within the CBHE's 42-credit-hour core of general education.

With completion of this "core" noted on their transcripts, students may transfer to participating Missouri colleges and universities, and this 42 credit general education core will be accepted as equivalent to the receiving institution's 42-credit core. Institutions may require transfer students to complete additional general education requirements beyond the 42-hour core when these requirements are also required of their native students.

When UMKC students planning to transfer to another Missouri institution complete the 42 hour transferable core, they may go to the advising and student services offices in their academic units to apply for certification of completion of the general education core. Once completion of the core is verified, a statement will appear on the student's transcript. A student should apply for certification well in advance of requesting a transcript be sent to another Missouri institution.

Please note that the CBHE core may not be as specific as the general education requirements for baccalaureate degrees at any particular institution. Students who intend to complete their degrees at UMKC must complete the general education requirements of the specific bachelor's degree they wish to earn. Similarly, students transferring to UMKC whose transcripts do not certify their completion of the core at another institution must complete all the general education requirements of the UMKC degree they wish to earn.

Below are the UMKC courses students may elect to take if they wish to complete the 42 credit hour transferable core prior to transferring to another Missouri institution:

1. Communicating (9 credit hours)
   To develop students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world.
   1. Writing and Critical Analysis: Students must satisfactorily complete ENGLISH 110 and 225. In addition, students must pass the Written English Proficiency Test (WEPT) or satisfactorily complete ENGLISH 299. A student earning a score of 30 or better on the ACT English subtest or 690 or better on the SAT Verbal, may be exempt from the English 110 requirement.

2. Higher Order Thinking, Managing Information and Valuing (6 credit hours)
   To develop students' ability to distinguish among opinions, facts, and inferences.
   Students must successfully complete 6 hours from at least two different fields, chosen from the following list:
   o PHILOS 210 or 222
   o HISTORY 201, 202, 206 or 208
   o ANTHRO 103
   o SOCIOL 103
   o COMP-SCI 100 or above
   o MATH 160 or above

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These courses, in addition to the remainder of the general education block of 42 hours, satisfy the three skill area goals of Higher Order Thinking, Managing Information and Valuing.

3. Social and Behavioral Sciences (9 credit hours)
   To develop students’ understanding of themselves and the world around them through study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain and predict human behavior and social systems.
   1. Constitution course chosen from: HISTORY 101 or 102 or 360R or POL-SCI 210
   2. Six additional credit hours from at least one field other than above, chosen from Economics, History, Political Science, Psychology, Sociology, Social Science, Geography or Criminal Justice

4. Humanities and Fine Arts (6 credit hours)
   To develop students’ understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts.
   1. One 3 credit hour course chosen from English, Communication Studies, Foreign Language or Philosophy
   2. One 3 credit hour course chosen from Art/Art History, Conservatory or Theatre.

5. Mathematics (3 credit hours)
   To develop students’ understanding of fundamental mathematical concepts and their applications.
   MATH 110 or higher (including MATH 116)

6. Life and Physical Sciences (8 credit hours)
   To develop students’ understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry.
   One Life Science and one Physical Science, to include at least one laboratory component.

7. Total General Education Core Credit Hours
   One additional credit hour from any of the above areas to total 42 hours.
   Students should consult with advisers in their primary academic unit to determine which additional courses may be used as alternatives to satisfy the General Education Core.
Graduate Academic Regulations and Information

School of Graduate Studies
300F Administrative Center
5115 Oak Street
(816) 235-1161
Fax: (816) 235-1310
graduate@umkc.edu
http://sgs.umkc.edu/

Mailing Address
University of Missouri-Kansas City
School of Graduate Studies
5100 Rockhill Road
Kansas City, MO 64110-2499

Dean:
Denis M. Medeiros

Mission and Administrative Organization of Graduate Education
Admission Policies and Procedures
Graduate Academic Regulations
  • Academic Loads
  • Enrollment
    o Changes in Enrollment
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    o Continuous Graduate Enrollment Requirement
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Doctoral Degree Programs (Ed.D., Ph.D., D.M.A.)
International Graduate Applicant and Student Information
  • General Graduate Admission Policies for International Applicants
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Intercampus Graduate Study Opportunities
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Potential Sources of Financial Support for Graduate Study
- Graduate Teaching and Research Assistantships
- Federally Supported Sources of Financial Aid
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Mission and Administrative Organization of Graduate Education
UMKC currently offers more than 50 graduate degrees at the master's, educational specialist and doctoral levels, plus a number of graduate certificates. Graduate students represent about 26 percent of the total campus enrollment. The graduate student population is diverse in ethnicity, gender and racial background. As an urban university, our programs strive to accommodate adult working students. Nearly two-thirds of all graduate students are enrolled part time and the average age is 35.

The Graduate Council, representing a cross section of campus graduate faculty, sets policy, establishes minimum graduate education standards and monitors the quality of graduate education at UMKC. The graduate faculty in the various graduate degree programs may set standards more stringent than the minimums outlined in this catalog section, and in such cases, the program standards take precedence over the campuswide minimum regulations. The School of Graduate Studies is responsible for monitoring compliance to the campuswide minimum graduate academic regulations; providing leadership and coordination of all graduate programs; and serves as the academic home for students admitted to the Interdisciplinary Ph.D. program. Information on the Interdisciplinary Ph.D. program may be found in the School of Graduate Studies section of this catalog.

Graduate Admission Policies and Procedures
Graduate admission committees in each academic unit review applications and make recommendations for admission. Applicants must satisfy both the general campus requirements and the program-specific admission criteria for graduate study. The minimum general requirements follow.

Graduate Admission Requirements
The following are minimum requirements for admission to graduate study in all UMKC graduate programs:

1. A bachelor's or first-level professional degree from a regionally accredited institution.
2. A satisfactory academic record.

For program-specific requirements, applicants should consult the pertinent degree program listing in this catalog.

Many UMKC graduate degree programs require satisfactory scores from either the Graduate Record Examination (general and/or subject tests), the Miller Analogies Test or the Graduate Management Admissions Test. Other academic units may require other national examinations. Test applications and information can be obtained from the UMKC Counseling, Health and

**Graduate Study Application Procedure**
In general, applications for admission to graduate study should be obtained from and returned to the admissions office. Complete contact information for admissions can be found in the Application Forms section of undergraduate admissions in the undergraduate catalog or from the UMKC Web site home page.

Because some academic units have special application packets, applicants requesting application materials should be sure to specify the program to which they plan to apply. Admission to a degree program is subject to the recommendations of the graduate faculty in the degree program area and the dean of the academic unit in which the program is offered. Graduate admission decisions by the academic dean or designated representative are final.

Applicants must submit an official transcript from the school where their bachelor's degrees were obtained. Unless the transcript of the degree-granting institution includes the complete record of undergraduate work taken at all other schools, an official transcript from each of the other institutions also must be supplied. In addition, applicants must submit an official transcript from each school where other coursework has been taken or degrees have been obtained after the bachelor's degree. All credentials submitted in support of the application for admission become UMKC property and will not be returned to students, nor will UMKC release copies of such credentials to a third party.

The graduate degree programs at UMKC have varying schedules for receiving, reviewing and acting on applications for admission. Before applying, applicants should contact the principal graduate adviser or graduate officer for the chosen degree to determine program-specific deadlines. Lists of the names of the current graduate officers and principal graduate advisers are available, on request, from the School of Graduate Studies.

International graduate applicants should refer to International Graduate Student Applicant and Student Information later in this section.

**General Graduate Academic Regulations**
The minimum academic regulations and degree requirements for graduate study at UMKC, as outlined in the subsections that follow, have been determined by the UMKC graduate faculty through representation on the Graduate Council and the Committee of Graduate Officers, and apply to all graduate programs. Individual schools and departments may adopt additional and more stringent requirements for admission, retention and degrees that take priority over these minimum regulations. These additional requirements are detailed under the various fields of study in this catalog.

**Full-Time Academic Load Definition for Graduate Students**
Graduate students enrolled in nine or more credits during a regular semester or five credits during a summer session are considered full-time students. All students registered for fewer than
those specified totals are classified as part-time students, unless they hold a teaching or research appointment at UMKC.

Full-time enrollment for students holding graduate teaching assistant or graduate research assistant appointments (GTA/GRAs) is six hours in a regular semester or three hours in a summer session. GTAs/GRAs are expected to make normal progress toward their degrees and should enroll in a minimum of six hours per semester (three credits in the summer session). However, GTA/GRA appointees who have completed all required coursework for the degree and who are working full time on research need only enroll for the minimum of three credits.

These designations of full time are for academic purposes only and do not apply to assessment of fees or degree program residency requirements. Note that this policy in no way alters the residency requirements and criteria for doctoral degrees. Further, international students holding GTA/GRA appointments also must abide by requirements of the U.S. Immigration Service and should consult the international student adviser before reducing their course loads.

Special Cases: Requests for GTA/GRA Appointments Greater than Half Time and Requests for Exemption from Social Security Withholding for GTAs/GRAs

GTA/GRA appointments are normally restricted to no more than 20 hours per week (.5 full-time employee). Requests for GTA/GRA appointments greater than .5 FTE must be submitted to the School of Graduate Studies prior to the beginning of the appointment and must be accompanied by a statement from the student's major adviser that the additional workload will neither place the student at risk academically nor impede the student's academic progress.

Graduate students holding GTA/GRA appointments are automatically exempt from Social Security withholding tax as long as they are enrolled in at least six credit hours. If the student's enrollment falls below six credit hours, the student's academic unit may certify his or her eligibility for continued exemption for one of the following two reasons:

- The GRA is a doctoral student working in a research laboratory as a component of the educational requirement and is enrolled in the minimum number of research hours required for doctoral students who have passed comprehensive examinations.
- The GTA or GRA is a graduate student enrolled in fewer than six credit hours because it is the student's exit semester.

Certification forms are available in the School of Graduate Studies office. The form requires signatures from the student's major adviser and the principal graduate adviser of the student's academic unit. After these individuals have signed the form, it must be sent to the School of Graduate Studies for recommendation. The School of Graduate Studies forwards the completed request to the Payroll Office for final action on the request.
**Restricted Academic Loads**

Limitation on the size of the academic load for which graduate students can register might be imposed by the dean or faculty adviser. Generally, students on probation are required to restrict the academic program to a minimum full-time load until they have returned to good standing.

**Interpretation of Full-Time and Half-Time Status of Graduate Students for Purposes of Certification to Lending/Funding Agencies**

To be eligible for certification of *full-time status* as a graduate student, a student must meet at least one of the following conditions:

- Enrollment in nine credit hours.
- Ph.D., D.M.A. and Ed.D. candidates who have passed their doctoral comprehensive examinations and are enrolled in one hour (not to exceed 10 semesters of certification under this category).

To be eligible for certification of *half-time status* as a graduate student, a student must be enrolled in at least five credit hours.

**Special Cases and Limitations on Registrar's Certification to Lending/Funding Agencies:**

- Ph.D. Ed.D. or D.M.A. students who have not taken and passed their doctoral comprehensive examinations and who do not meet one of the other enrollment qualifications for certification and Master's/Educational-Specialist students not qualifying for certification under one of the categories listed above may petition the principal graduate adviser in their academic unit for special consideration. If, based on a review of the student's petition, the principal graduate adviser believes there is sufficient reason for certifying the student for full-time or half-time status, the principal graduate adviser may submit a request to the Registrar's Office.
- Work to satisfy an incomplete grade or grades from a previous term or terms does not count toward certification. Therefore, a class may be used only in status calculation for one term. Since the hours are used in status calculation during the original term of enrollment, that is the only term that the hours may be counted.
- Status may not be calculated nor certified for future terms.

Information given in this section reflects minimum campus standards for graduate students' changes of enrollment. Because each academic unit has the prerogative to set more stringent rules, students should consult the principal graduate adviser or graduate officer in their major area of study for unit or discipline-specific rules. All changes in enrollment by graduate students must be initiated in the office of the principal graduate adviser (Arts and Sciences) or graduate officer of the respective unit and completed in the Registration Office.

**Additions**

Students who want to enroll in an additional course may do so during the first week of the term provided they have the approval of the faculty adviser. Course additions or late enrollments after the first week of the term generally are not allowed.
Withdrawals
Graduate students may withdraw from a course at any time prior to the first day of the final examination period, provided the permission of the faculty adviser has been obtained and notification to the instructor has been made. However, after the mid-term, students will be academically assessed. If failing at the time of withdrawal, students will be graded "WF" (withdrawn failing). [Note: Individual academic units may have earlier deadlines for withdrawal.]

Change from Audit to Credit
Graduate students may change status in a course from audit to credit during the first week of the term, provided they have the approval of the faculty adviser and have notified the course instructor.

Change from Credit to Audit
Graduate students may change status in a course from credit to audit any time prior to the final examination period, provided they have the consent of the course instructor and the approval of the faculty adviser. [Note: Individual academic units may have earlier deadlines and may have program-specific restrictions on retaking audited courses for credit.]

Withdrawal for Financial Delinquency
If students fail to fulfill financial obligations with the University after adequate notice, withdrawal from all courses during that term will result.

After completing all courses included in the planned programs or plans of study for degrees, all degree-seeking graduate students must remain continuously enrolled in each regular semester up to and including the semester in which their degrees are awarded. This requirement applies also to the summer term for students whose degrees are being awarded at the end of a summer term. This continuous enrollment must be for a minimum of one-hour credit in research and thesis, research and dissertation, or other work designated by the department or school. When no suitable credit registration is available, or when students have previously enrolled in at least the minimum number of 5599 (thesis) or 5699 (dissertation) or equivalent credits required on their programs or plans of study, students may fulfill the continuous enrollment requirement by registration in continuous graduate enrollment (5899) for no academic credit. Interruption of continuous registration due to failure to comply with this requirement will result in the need for readmission under requirements then in effect. Academic units may require retroactive enrollment as a condition of readmission.

Continuous Graduate Enrollment (5899):
Courses designated as 5899, Continuous Graduate Enrollment, are charged at the rate established for one credit hour. Registration, by mail or in person, must be completed by the end of the first week of a regular semester or of a summer session. Students may obtain a reference number for 5899 from the Registration and Records office.

Graduate students in good standing who have not enrolled for only one semester may re-enroll without applying for readmission. Students who attend other schools in the interim must submit
transcripts of such work from each institution attended. Graduate students are considered inactive after a lapse of two or more regular semesters of enrollment. Subsequently, inactive graduate students who want to continue must follow the same admission procedures as those required for new applicants. After a lapse of three or more terms, graduate students will re-enter under requirements in effect at the time of readmission.

Post-Baccalaureate, Non-Graduate Student Classification:
Students who have earned a baccalaureate degree and who are seeking only additional undergraduate courses may be admitted under a post-baccalaureate (code 4-E) classification. Students in this classification are restricted to enrollment in courses numbered 499 and below and may not take any courses for graduate credit. Courses taken while classified as a code 4-E student may not be included for credit on a graduate degree program at a later date. Code 4-E students wanting to reclassify as graduate students for a future term must reapply and be regularly admitted to the graduate programs in which they want to seek advanced degrees.

Degree-Seeking and Non-Degree-Seeking Graduate Student Classifications:
Students admitted to any of the graduate classifications (whether degree seeking or non-degree seeking) will be enrolled automatically for graduate credit in courses numbered 300 to 499 unless they indicate on their enrollment forms that they do not want graduate credit for the course or the instructor specifies the course may only be taken for undergraduate credit. Courses numbered 299 and below may not be taken for graduate credit, are not calculated in a student's graduate grade-point average and cannot be included as credit courses on a graduate student's program of study.

The following six admissions categories are used for degree-seeking graduate students at UMKC:

1. Regular Master's Degree Seeking - (Full Admit) Degree-seeking graduate students admitted to a master's degree program without reservation.
2. Conditional Master's Degree Seeking - (Provisional Graduate). Degree-seeking graduate students admitted to a master's-level degree program who have not yet fulfilled all admissions requirements specified by the academic unit responsible for the degree program.
3. Regular Educational-Specialist Degree Seeking - (Full Admit). Degree-seeking graduate students admitted to an Educational-Specialist degree program in the School of Education without reservation.
4. Conditional Educational-Specialist Degree Seeking - (Provisional Graduate). Degree-seeking graduate students admitted to an Educational-Specialist degree program who have not yet fulfilled all admissions requirements specified by the School of Education.
5. Regular Doctoral Degree Seeking - (Full Admit). Degree-seeking graduate students admitted to a doctoral degree program (Ph.D. or D.M.A.) without reservation.
6. Conditional Doctoral Degree Seeking - (Provisional Graduate). Degree-seeking graduate students admitted to a Ph.D. or D.M.A. program who have not yet fulfilled all admission requirements specified by the academic unit responsible for the degree program.
Full admission of provisional graduate students to a degree program and appropriate reclassification are subject to students' removal of deficiencies and approval of satisfactory performance.

Admission to graduate study and to a particular degree program is no guarantee that students will be advanced to candidacy or granted a higher degree. All candidates are expected to perform at a consistently high level and to satisfy all the requirements for the degree. The final determination, as to whether or not students will be recommended for a graduate degree, is made by the graduate faculty in the fields concerned. The graduate faculty reserves the right to deal with exceptional cases on individual merit.

Degree-seeking graduate students who plan to change their field of study must reapply for admission and be regularly admitted to the desired graduate program in the new department or school.

The following three admission categories are used for non-degree-seeking graduate students:

1. **Non-Regular Graduate - Continuing Education, Non-Degree-Seeking Student - (College Continuing Education).** Students taking courses for graduate credit through the Division of Continuing Education. It should be noted that admission to this category (generally through self-certification) does not constitute regular admission to a graduate program at UMKC. However, on the recommendation of the adviser and approval by the graduate officer, a limited number of graduate credit courses (normally no more than six credit hours) may be applied to individual degree programs after students have been regularly admitted to do graduate study (see Application for Graduate Study, above).

2. **Visiting Graduate Student - (Visiting).** This includes students who have been properly certified as graduate students at an accredited institution other than UMKC, and have permission to enroll in specific courses (including 5000-level courses) at UMKC. **Note:** Students who have previously been enrolled in a UMKC graduate program must have been in good academic standing at the end of their last UMKC graduate enrollment to take graduate courses as a visiting graduate student.

3. **Graduate Special Non-Degree Seeking - (Non-Degree Graduate Special).** This classification is used for three categories of students: (1) Community access, non-degree-seeking students wanting access to graduate level courses not available through continuing education; (2) Potential graduate applicants, not meeting requirements for conditional admission and wanting to take graduate-level courses in order to qualify for admission; and (3) Community access students applying to graduate certificate programs. The following restrictions apply to Non-Degree Graduate Special Classification graduate students:
   - Students apply to the academic unit, if declared. If undeclared, students are admitted as undeclared graduate students in the College of Arts and Sciences.
   - All graduate academic regulations apply.
   - Students must have a baccalaureate degree prior to admission.
   - Students are subject to the campus graduate academic probation and ineligibility policies.
• Students with a Non-Degree Graduate Special classification are not eligible for financial aid unless they are enrolling at least half-time in a graduate certificate program.
• International students may not be issued I-20 forms for admission under a Non-Degree Graduate Special classification.
• International students considered under the Non-Degree Graduate Special classification must meet the University standards for evidence of English proficiency.
• Students admitted under this classification must reapply to the academic unit and be admitted to a graduate degree program in order to be changed to degree-seeking status.
• At the discretion of a department or area, the graduate-level courses completed with a grade of B (3.0) or better while classified as a Non-Degree Graduate Special student may be applied toward a graduate degree in that department or area. Of the courses listed on a degree, no more than 12 semester credit hours may have been completed while enrolled as a Non-Degree Graduate Special student.

All non-degree-seeking graduate students (College Continuing Education, Visiting, and Non-Degree Graduate Special) wishing to enter a degree program must reapply for and be regularly admitted to the department or school from which they want to receive an advanced degree.

Campuswide Exceptions
Petitions for an exception to a campuswide graduate academic regulation must originate with the student. It must be processed through the graduate officer and dean or program director in charge of the student's graduate degree program and forwarded to the dean of the School of Graduate Studies. Only the dean, or the designated representative, is authorized to grant an exception to the graduate academic regulations applying to all graduate students. Petitions must be in writing and include (1) the reason for requesting the exception and a detailed justification from the student; (2) recommendation for action by the appropriate graduate officer; (3) recommendation for action by the department or division chair (if applicable); and (4) recommendation for action by the appropriate dean or program director. The graduate dean or designated representative will review the petition and related documentation and render a decision which will be communicated in writing to the academic dean or director, the graduate officer, the student and the registrar.

Program-Specific Exceptions
Petitions for exception to a program-specific academic regulation are handled within the academic unit's degree program. A graduate student who has petitioned for an exception to a program-specific academic regulation and whose petition has been denied may appeal the decision to the dean of the School of Graduate Studies if all other remedies open to the appellant have been exhausted at the department and college, school or program level. Appeals to the dean of the School of Graduate Studies must be made in writing within 14 consecutive days from the date the student received the written notice of the petition decision. The dean of the School of Graduate Studies will investigate the case and take appropriate action in a timely manner. The decision of the graduate dean, as the chancellor's designated representative, is final and will be communicated in writing to the student, the graduate officer, the academic dean or director and the registrar.
Course Designations
In general, courses numbered 5000 and above are open only to regularly admitted graduate and Ph.D. students.

Courses numbered 300 to 499 are upper division junior- and senior-level courses. Graduate students who enroll in such courses have the option of designating them, at the time of enrollment, as being "not for graduate credit." If the student chooses this option, the grade will not be included in the student's graduate grade-point average and the course may not be included on the graduate or Ph.D. program/plan of study and will not count toward a graduate degree. In order for a 300- or 400-level course to be accepted for graduate credit, students will be expected to do supplementary work (additional reading, projects, papers and contact hours with the instructor) and to demonstrate graduate-level competency and achievement in the subject. Also, students must take the course for graduate credit and complete it with a grade of B- (2.7) or better. The total number of acceptable 300- to 400-level courses to be applied to requirements for a graduate degree may not exceed 40 percent of the total number of courses applied to graduate or non-interdisciplinary doctoral-degree requirements, or one-third of the total number of courses on the approved Interdisciplinary Ph.D. plan of study.

Courses at the 100- and 200-level are not available for graduate credit and will not be applied toward the number of hours required for a graduate degree.

Courses numbered 5580 to 5589 generally are reserved for seminars, workshops and special topics. Consult individual degree programs for possible restrictions on such offerings. The course numbers 5590 to 5598 usually are reserved for non-thesis research, directed studies and readings. Courses numbered 5599 are restricted to research leading to a thesis. Considering this numbering system, no more than 40 percent of courses numbered 5590 to 5599, or other courses which fall in the categories listed above for that course number range, may be applied to a graduate degree program of study, with the exception of the Interdisciplinary Ph.D. study.

Courses numbered 5695 to 5699 are restricted to research leading to a dissertation. Continuous Graduate Enrollment is numbered 5899.

Note: The numbering of graduate courses in the School of Dentistry differs from the system described above.

Course Restrictions

Policy on Admission of Undergraduates to Graduate-Level Courses:
In addition to regularly admitted graduate students, seniors who meet the requirements below, and who have obtained the necessary approvals and received permission from the School of Graduate Studies may enroll in a limited number of courses numbered in the 5000 series and above, or may enroll in appropriate 300- and 400-level courses for graduate credit.

Minimum requirements:
- Seniors within 12 credits of graduation who have a 3.0 GPA or better in their college work; or

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• Seniors within 30 credits of graduation who have a 3.5 GPA in their college work.

To request permission to take a graduate-level course, the senior must:

1. Obtain a request to take graduate-level course form and an advising transcript from the Registrar’s Office. (Forms also are available on-line at http://sgs.umkc.edu/forms/index.asp.)

2. Fill out the request to take graduate-level course form, attach a copy of the advising transcript to the form and seek written approval on the form from the course instructor; the dean or director of the academic unit in which the requested course is offered; and the student's undergraduate adviser.

3. Once the above steps have been completed, submit the form to the School of Graduate Studies for final approval. This last step should occur no later than four weeks before regular registration.

This policy does not generally apply to 5000-level courses in the Bloch School of Business and Public Administration open exclusively to graduate students. However, Bloch School seniors may begin work on the M.B.A., M.P.A. or M.S. in accounting degree if pre-approved by the Bloch School based on their formal application and admission to the graduate degree program.

This procedure is intended to allow a degree of flexibility in planning the academic programs of degree-seeking seniors who clearly have shown academic merit and plan to pursue advanced study after graduation. This option is not available for post-baccalaureate students (code 4-E).

In all cases, eligible students may enroll in no more than six credits of graduate-level courses or courses for graduate credit through this procedure. In addition, first-semester seniors who enroll in graduate-level courses are limited to a total enrollment of no more than 15 hours for the semester. Graduate-level courses (5000 and above) are to be selected from those courses generally offered to first-semester or first-year graduate students. Courses such as special topics, individual studies and directed research designed for advanced graduate students are not eligible under these provisions.

Students may petition that the courses can be taken for graduate credit or undergraduate credit. Credit may be applied to requirements for a graduate or a bachelor's degree, but not both.

Requests by students who meet all the requirements stated above will be approved by the dean of the School of Graduate Studies or designated representative. In exceptional cases, students who do not meet the requirements stated above may present a petition to the dean of the School of Graduate Studies. Such petitions must be presented to the school no later than four weeks before the beginning of the term for which enrollment is sought.

Students who do not meet the above criteria but who register for a graduate-level course will be withdrawn administratively from the course. Fees paid for the course will be refunded.
Graduate-Credit, Continuing Education Courses:
Graduate-credit courses are offered on an irregular basis at both off-campus and on-campus locations through the Division of Continuing Education, in conjunction with various instructional divisions.

Students may enroll in such courses and earn graduate credit without being regularly admitted to a graduate program. However, application of such credits toward an advanced degree can be determined only after students have been regularly admitted to graduate study. Such application depends upon the acceptance of students and the course by the respective department or division offering the degree. Students are responsible for determining whether these credits will satisfy the requirements of their particular educational goals and should make such determination before registering for the course.

Grading System
The following is the grading and grade-point system at UMKC:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Description</th>
<th>Points per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>The highest grade</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td></td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>Work of distinction</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td></td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>Average work</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td></td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>Passing, but unsatisfactory</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td></td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>Failure without credit</td>
<td>0.0</td>
</tr>
<tr>
<td>NR</td>
<td>Not Reported</td>
<td>0.0</td>
</tr>
<tr>
<td>WF</td>
<td>Withdrew failing</td>
<td>0.0</td>
</tr>
<tr>
<td>W</td>
<td>Withdrew; no academic assessment</td>
<td>-</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>-</td>
</tr>
<tr>
<td>AT</td>
<td>Audit</td>
<td>-</td>
</tr>
<tr>
<td>CR</td>
<td>Credit only</td>
<td>-</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
<td>-</td>
</tr>
<tr>
<td>P</td>
<td>Passing</td>
<td>-</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
<td>-</td>
</tr>
</tbody>
</table>

In terms prior to and including 1985, any of the above grades might be preceded by an R indicating a repeated course. These grades are not included in either total hours or the grade-point average. (Examples: RC, RD, RF.) Since 1985, all grades, including those in repeated courses, are included in the GPA calculation. For the 1993 Fall Semester, UMKC began using
the plus/minus grading system for grades A, B, C and D. The grade of A+ is valid only for students in the School of Law.

**Incomplete Grades**
An instructor may give a grade of incomplete (I) to students who have been unable to complete the work of the course because of illness or other valid reasons beyond their control. Students who receive an incomplete must complete the required work within one calendar year to avoid an F (failure without credit). The instructor may specify a shorter completion period. A grade of incomplete is only appropriate when enough work in the course has been completed that the student can finish the remaining work without re-enrolling in the course in question, or by attending additional classes. In other instances, students should withdraw. Students cannot re-enroll in a course for which an incomplete remains on the record.

This policy is exclusive of those courses which are considered directed individual studies; internships; special topics; practicums; research and thesis; and research and dissertation courses. Because completion of such courses will quite often span several terms, incomplete grades assigned in such courses will not automatically lapse to an "F" grade after one calendar year, but will adhere to the completion period specified by the instructor.

**Policy on Repeated Graduate-Credit Courses**
Whenever students repeat a graduate-credit course, they must submit a course repeat form to the Registration and Records Office no later than the fourth week of the term. Students seeking graduate degrees are limited to repeating no more than 20 percent of the credits applicable toward a graduate degree. If approved by the school or department or Interdisciplinary Ph.D. supervisory committee, students may repeat a course once to improve the grade-point average or satisfy the program requirements. The second grade received will be used to calculate the grade-point average that will be used in satisfying degree requirements.
General Graduate Academic Regulations – Requirements for Retention

Graduate Probation Policy
Graduate students, regardless of classification, must maintain a 3.0 (B) grade-point average in all coursework taken for graduate credit at UMKC and must meet any additional academic requirements imposed by the school, department or Interdisciplinary Ph.D. discipline. Students are responsible for keeping apprised of their academic status by referring to term grades and their permanent academic record on file in the UMKC Registration and Records Office.

Whenever the cumulative GPA for UMKC courses taken for graduate credit by a graduate student of any classification falls below 3.0, the student's status for the next term becomes: "On Probation - See principal graduate adviser." (Interdisciplinary Ph.D. students will be directed to consult their interim adviser or research adviser.) The principal graduate adviser, interim adviser or research adviser will review the student's progress and provide counsel, and the following conditions apply:

- A graduate student on probation who is not restored to good academic standing by the end of two successive regular semesters following the term in which the cumulative GPA fell below 3.0 will be declared ineligible to re-enroll.
- While on probation, a graduate student must achieve a 3.0 term GPA in order to enroll for the following term.
- A graduate student on probation will not be restored to good standing until a cumulative graduate-credit GPA of at least 3.0 is achieved.

Ineligibility for Further Graduate Study

Ineligibility Following Academic Probation
In the case of ineligibility following academic probation, the graduate student may present a petition for re-enrollment to the principal graduate adviser of the student's academic program. Petitions will be reviewed by the graduate faculty member responsible for the student's degree program. That faculty member will make a written recommendation to the appropriate administrative levels within that academic unit approving or denying of the petition. The approval or denial action may include:

- Approval for further graduate study in the student's current field of study and in the same classification but on a restricted probation basis (as defined in written contract).
- Approval for further graduate study in the student's current field of study in a different student classification and on a restricted basis.
- Denial for further graduate study in the student's current field but approval for undergraduate study only.
- Denial for further study, either graduate or undergraduate, in the student's current field of study.

Ineligibility Due to Unsatisfactory Progress or Performance
When a department or school or Interdisciplinary Ph.D. supervisory committee, irrespective of a student's grade-point average, considers a graduate student's performance to be unsatisfactory,
that department, school or committee may recommend to the dean or director of the academic unit in which the student's degree is housed that the student be reclassified or declared ineligible for further study. The dean or director reviews the recommendation and conveys a decision to the respective faculty group and the student.

Students in programs other than the Interdisciplinary Ph.D. program who have been declared ineligible due to unsatisfactory progress or performance may appeal such decisions to the dean of the School of Graduate Studies, as designee of the chancellor. Students in the Interdisciplinary Ph.D. program may appeal such decisions to the provost, as designee of the chancellor. Such appeals must be made in writing within 14 consecutive days after receipt of the notification to the student of the decision.

The decision of the graduate dean or provost, as the chancellor's designated representative in such cases, is final and will be communicated in writing to the following:

1. The student
2. The graduate faculty review group(s)
3. The academic dean or director
4. The registrar

General Academic Regulations – Retroactive Withdrawals

A student may petition for Retroactive Withdrawal from a course(s) or from the university (all courses taken during that semester), if circumstances of a serious and compelling nature prevented the completion of course work and extenuating circumstances prevented submission of a regular withdrawal petition by the deadline on the Academic Calendar. In filing a Petition for Retroactive Withdrawal, withdrawal from all courses taken during the term in question is normally expected since 'extenuating circumstances' are not course-specific.

Petitions must be submitted to the School or College (academic unit) where the student’s current major is housed. Each academic unit will assemble a retroactive withdrawal committee that will make decisions on all retroactive withdrawal petitions. Approved retroactive withdrawal petitions which require a change of grade will follow standard change of grade procedures. A copy of the approved petition and supporting documentation should be attached to the grade change form when it is submitted to the Registration and Records office.

Petitions that are approved by the home academic unit for courses that reside outside of the home academic unit will be forwarded to the host academic unit retroactive withdrawal committee along with all supporting documentation. The host retroactive withdrawal committee will forward their decision back to the home academic unit.

If the petition for retroactive withdrawal is denied by either home or host retroactive withdrawal committee, the student has the right to appeal the decision to their home academic unit Dean. The decision of the home Dean is final.
If the home academic unit Dean approves a petition for coursework that is housed in a host academic unit, the paperwork will be forward to the host academic unit Dean for a decision. The host dean will forward their decision back to the home academic unit. The decision of the host Dean is final.

Students who submit a retroactive withdrawal are not typically candidates for fee refunds. For courses taken while enrolled in the Interdisciplinary Ph.D. program in the School of Graduate Studies and the Schools of Dentistry, Law, Medicine, and Pharmacy, students should refer to the retroactive withdrawals policies and procedures of these schools as they may have more stringent requirements.

**Students are not a candidate for retroactive withdrawal if any of the following conditions are true:**

You are applying because you are not satisfied with the grade you earned.

You are applying because you neglected to formally withdraw from the course(s) in question.

You were not aware of the withdrawal deadlines.

You changed your major and are now working towards a major or degree which does not require this course.

You assumed non-academic activities which restricted your time for academic pursuit.

You were ill or you suffered stress as the result of an accident, death, family crisis, or other crisis early enough in the semester to have withdrawn during the semester.

You have already received a UMKC degree for which the course(s) in question were applied towards degree requirements and/or your UM GPA.

If any of the above are found to be true of your case, your request for retroactive withdrawal will be denied.

**Students may be candidates for retroactive withdrawal if any of the following conditions are true:**

There was a documented administrative error that affected your enrollment in one or more courses.

You have documentation of a serious illness that affected your ability to complete all of your coursework after the withdrawal date.

You encountered documented extreme and unusual circumstances which a) were beyond your control, b) occurred after the withdrawal date, and c) could not have been addressed during the term in which the course(s) was taken.
Process for submitting a Retroactive Withdrawal Petition:

1. To withdraw retroactively from the university or specific courses, the student must present official supporting documents which demonstrate serious and compelling reasons (usually due to serious accident or illness) justifying the withdrawal and extenuating circumstances justifying its 'retro' nature.
2. The student collects supporting documentation submits the entire package (Retroactive Withdrawal form and official supporting documentation) to the School or College where their major is housed.
3. All decisions will be made by each School or College Retroactive Withdrawal or Petition for Exception Committee.
4. Individual instructor’s feedback should be considered with all petitions.
5. Once a decision is made the home School or College will send all documentation to the Registration & Records Office.

The retroactive withdrawal policy is effective as of Summer 2010 and applies to all students, regardless of the catalog year the student entered the University

General Graduate Academic Regulations – Requirements for Graduation

Program of Study
Graduate education is intended to answer the personal needs of students and the special needs of society not satisfied through undergraduate training. Graduate degrees indicate that the holders have sufficiently mastered a program in a particular field to pursue creative projects in that specialty. The degrees are awarded for completion of a coherent program -- formalized as the program or plan of study -- designed to assure the mastery of specified knowledge and skills. Forms for specifying individual programs or plans of study are available from the principal graduate adviser (Arts and Sciences) or graduate officer of the academic unit.

Students may elect to fulfill either the degree requirements in effect at the time of their original admission (provided there has not been a lapse in attendance at UMKC of more than two consecutive terms) or the degree requirements in effect at the time of advisement into a planned graduate program of study.

No course at the 300- or 400-level taken on a credit/no credit basis; no 300- or 400-level course with a grade below B- (2.7); and no 5000-level or higher course with a grade below C (2.0), will count toward any advanced degree program. Additionally, 80 percent of the credits for the degree must be passed with a grade of B (3.0) or better. Students admitted to the combined J.D./MBA program must receive grades of B or better in 80 percent of Bloch School courses. Because of different grading standards, the transferred law hours are not included in the 80 percent calculation. Degree programs may have requirements which are more stringent. If so, the program requirement takes precedence over the campus minimums.
Thesis and Dissertation Preparation and Approval Process

**Formatting Regulations:**
Some master's degree programs have a thesis requirement and some have a thesis option. All Ph.D. degree programs at UMKC require a dissertation. The School of Graduate Studies, guided by the Graduate Officers Committee, establishes the format regulations for theses and dissertations (T/Ds) at UMKC. Degree candidates are responsible for familiarizing themselves with and adhering to the standards of the latest edition of the "Manual for Writers of Term Papers, Theses and Dissertations" edited by Kate Turabian. They also must become familiar with the special format regulations for title page; abstract format and length; approval page; order of manuscript sections; paper; page numbering; heading levels; margins; and type style and size; which are outlined in the "University of Missouri-Kansas City Guide to Formatting Theses and Dissertations" which is available online at sgs.umkc.edu/guidellin/index.asp. Bibliographic references must follow Turabian guidelines unless the student's academic program has an alternate bibliographic reference format approved by, and on file with, the School of Graduate Studies. Candidates should check with the principal graduate adviser in their respective academic units to determine the approved bibliographic reference format standard for their degree programs. Any variances from the standards outlined in the "University of Missouri-Kansas City Guide to Formatting Theses and Dissertations", Turabian and discipline-approved bibliographic reference styles must be requested in writing and approved in advance by the dean of the School of Graduate Studies. A copy of the dean's official letter authorizing exceptions to formatting standards must be included as an appendix to the T/D.

The School of Graduate Studies provides formatting workshops at the beginning of each fall and spring semester. In addition, degree candidates may schedule individual conferences with the school's T/D Formatting Specialist during the first four weeks of the fall or spring semester and the first two weeks of the summer term to make sure they have interpreted the formatting guidelines correctly and to seek guidance on specialized formatting problems. Candidates should call the School of Graduate Studies office, (816) 235-1161, for time and place of workshops or to schedule a formatting conference.

**Supervisory Committee Review and Approval of T/Ds:**
Approval of the T/D begins with the degree candidate's supervisory committee. Candidates work closely with their research advisers while writing the various sections of the manuscript. The candidate's supervisory committee shall ensure that the scholarly content and style of the T/D is in keeping with recognized standards of the chosen discipline(s). Graduate degree candidates should periodically provide all members of their supervisory committee with preliminary drafts of the T/D for review and comment. Final drafts of the T/D, which incorporate all substantive revisions supervisory committee members have previously requested, should be submitted to all members of the candidate's supervisory committee at least eight weeks before the expected date of graduation. For both master's and doctoral-level degree candidates, when the supervisory committee members feel the work is complete and ready for final defense by the candidate, the committee members notify the supervisory committee chair by completing a Master’s Pre-Oral Defense form or Doctoral Dissertation Pre-Oral Defense form and forwarding it to the supervisory committee chair. The supervisory committee chair and student may then schedule a final defense of the work.
School of Graduate Studies Review and Certification of Acceptance of T/Ds:
The deadline for submitting the T/D to the School of Graduate Studies for certification of acceptance is printed in the calendar section of the schedule of classes for each term. The actual date varies, but it is approximately six weeks before the end of the fall or spring semesters and four weeks before the end of the summer session. Prior to the published deadline for the term in which the degree candidates expect to graduate, they must present the following to the School of Graduate Studies office:

- One unbound copy of the T/D in final form, but not printed on archival quality, acid-free paper.
- The signed Preliminary Approval of T/D by Supervisory Committee form.

T/Ds normally will not be accepted for review for graduation during the current term unless they are received in the School of Graduate Studies by the published deadline. In the school, the T/D is reviewed by a Thesis/Dissertation Formatting Specialist for conformity to the campus formatting standards and by the graduate dean for quality of content. The school's review process generally takes from two to four weeks. The candidate will be notified to pick up the T/D and make all necessary formatting corrections before resubmitting the T/D to the School of Graduate Studies. Candidates who are out of the city must make arrangements to have the copy picked up locally or returned, collect, by messenger service.

After the T/D defense, the student should submit a corrected final draft on plain paper to the School of Graduate Studies. This draft should be accompanied by the Master’s Thesis Final Evaluation forms or Doctoral Dissertation Final Evaluation forms completed by each committee member. The graduate dean will review the thesis or dissertation for certification of acceptance. If the T/D has significant formatting problems, it will be returned to the candidate without further review or certification. The candidate will be required to make all necessary formatting corrections and resubmit the T/D to the School of Graduate Studies. If this happens, the candidate's graduation may be delayed. Enrollment in an additional term of continuous-graduate enrollment may be required.

Preliminary approval forms, Master's Thesis Preliminary and Final evaluation forms and Doctoral Dissertation Preliminary and Final evaluation forms are available from the School of Graduate Studies office in the Administrative Center (5115 Oak St.) and online at sgs.umkc.edu/guidelin/index.asp.

When both components of the School of Graduate Studies review of the T/D are complete, the candidate is notified. If further format corrections are required, the School of Graduate Studies will hold the certificate of acceptance until appropriate revisions are made and rechecked by the formatting specialist. The candidate then picks up the certified copy of the T/D and the certificate of acceptance from the School of Graduate Studies office and may prepare their final copy to upload to ProQuest. (See Final Thesis Examination and Supervisory Committee Approval under Master's Degrees Academic Regulations and Final Dissertation Examination under Doctoral Degree Programs (Ed.D., Ph.D., D.M.A.) later in this section.) Candidates who are out of the city must make arrangements to have the certified copy picked up locally or returned, collect, by messenger service.
**Deposit of T/Ds with the Library:**
The candidate makes any final revisions requested by committee members at the defense or the School of Graduate Studies and then uploads an electronic copy of the document in portable document format (PDF) to ProQuest. The PDF copy is then transmitted to the University of Missouri system institutional repository, MOSpace, where the document is made available via the world wide web. As an added optional service, ProQuest will handle the copyrighting process for theses and dissertations, if desired. Students will pay an archival copy fee when they upload the document, plus an additional fee if they choose to have ProQuest handle the copyright registration. **Submission to ProQuest must be accomplished no later than the Friday immediately preceding the first day of classes for the next term.**

**Application for Graduation**
Completing degree requirements does not automatically result in conferral of the degree. Students must request that the University review their academic record and certify that degree requirements have been met. To make this request, students must file applications for graduation with the registrar no later than the end of the fourth week of the semester in which the degrees will be completed. Students graduating at the end of the summer session must file an application for graduation no later than the end of the second week of the summer session. An approved program/plan of study must be on file with the registrar at the time the student makes application to graduate. Filing applications for graduation initiates degree checks in the Registrar's Office. The students and their advisers receive a degree checklist which indicates any deficiencies the students must clear. Students should contact their advisers if there are questions about the checklist. The application for graduation also places candidates' names in the commencement program. In addition, when completion of degree requirements have been certified by the registrar, the Registrar's Office authorizes the diploma order.

Specific term deadlines for all graduate requirements are announced in the schedule of classes for each term. Students are responsible for being aware of and meeting these deadlines. The registrar will certify degree completion if students' academic records (transcripts) show that they have completed all of the requirements listed on the approved program/plan of study.

**Commencement**
Advanced degree candidates are urged to attend commencement. Students should arrange for rental or purchase of a cap and gown at the University Bookstore at least six weeks before the graduation date.

**Time Limit on Degree Credit for Master's and Educational-Specialist Degrees**
Credit over seven years old at the time of graduation, which is included on the master's or educational-specialist program of study and has not been applied to a previous degree, may not be counted toward the fulfillment of a graduate degree program unless validated to the satisfaction of the department or school and the School of Graduate Studies. Petitions and affidavits for this purpose may be obtained from the School of Graduate Studies. A maximum of 30 percent of the student's program of study may be validated under this procedure. In connection with an authorized leave of absence, an exception to the time limitation may be approved in advance.
Master's Degrees Academic Regulations

The following general campus regulations pertain specifically to the master's degree. Master's students also should refer to Graduate Academic Regulations earlier in this catalog section for regulations common to all graduate degrees at UMKC and to specific degree program requirements in other sections of this catalog.

Adviser/Supervisory Committee
Upon admission to a graduate program, a student seeking a master's degree will contact the appropriate department chairman of the College of Arts and Sciences or the graduate officer of the professional school or program. This person will assign the student an adviser who is a member of the graduate faculty. When research and a thesis are degree requirements or the student has selected a thesis option, the Arts and Sciences department chair or the school's graduate officer will appoint two additional faculty members to serve on the graduate student's supervisory committee. The chair and a majority of the members of a master's student supervisory committee must be full members of the graduate faculty.

Qualifying Examination
If required, a qualifying examination must be passed before a master's program is filed with the graduate officer. The department or school will notify students of the time and date of the examination. The results of the qualifying examination will be reported to the registrar. With the approval of the adviser and the supervisory committee, if such exists, students may take the qualifying examination a second time.

Master's Degree Program of Study
In consultation with the adviser or the supervisory committee, the master's student plans a program of study in accordance with the minimum requirements listed here and the specific degree requirements listed elsewhere in this catalog. Forms for specifying individual programs of study are available from the principal graduate adviser or graduate officer of each academic unit. Students should file this program of study with the departmental principal graduate adviser (College of Arts and Sciences) or the graduate officer in their academic units before 60 percent of the coursework applicable to the degree is completed. In the College of Arts and Sciences, the principal graduate adviser secures required departmental approval and forwards the program of study to the graduate officer of the college.

After the proposed program has been approved, as required by the academic unit, the unit's graduate officer will distribute copies of the program of study to the registrar, the student's adviser or chair of the student's supervisory committee, the principal graduate adviser (Arts and Sciences) and the student.

The approved master's degree program of study must include a minimum of 30 graduate credits. No more than 40 percent of the credits on the program may be 300- and 400-level courses. At least 60 percent of the credits must be at the 5000 level or higher. Further, up to six credits may be allowed for Research and Thesis (5599). Other demonstrations of skills considered by the department or school as comparable to the thesis may be accepted. No more than 40 percent of the courses applied toward a master's degree program of study may be in the non-thesis research,
directed studies, readings or research and thesis categories. Such courses normally fall in the 5500 to 5599 range, but the numerical designations may vary among academic units.

**Program Changes:**

Subsequent changes in the program of study must be approved by the student's adviser, the supervisory committee and the appropriate dean or department chair. The graduate officer will inform the registrar of such changes. If cumulative changes in courses or degree requirements exceed four, a new program of study should be filed.

**Dual Degree Programs at the Master's Level**

Dual-degree programs allow students to simultaneously pursue degrees at the master's level in two fields of study. Students must complete at least 80 percent (rounded up) of the credit hours required for each degree separately. Students must satisfy admission, course and examination requirements of both degree programs.

**Transfer Credit Policy for Master's Degrees**

A maximum of 20 percent of the graduate credit hours appearing on the program of study (rounded up) may be transferred from a recognized graduate school for a master's degree at UMKC. Such transfer credits must meet with approval of the student's supervisory committee and appropriate principal graduate adviser (College of Arts and Sciences) or graduate officer and be in accordance with all of the following criteria:

1. The coursework must be:
   - Offered by an accredited school.
   - Applied toward a graduate degree at the host institution and taken for graduate credit.
   - Approved by the appropriate graduate faculty.

2. A grade of B (3.0) or higher for 300- and 400-level courses and C (2.0) or higher for 5000-level courses or other courses restricted to graduate students only must have been earned. (CR or P will be accepted on receipt of a statement from the institution where credit was received of letter grade equivalent meeting grade standards as stated above.)

Transfer credit may be allowed for correspondence courses, provided the credits meet the criteria outlined in 1 and 2 above. Transfer credit will not be accepted for research and thesis/dissertation hours (defined by UMKC), travel experience or work/life experience. Foreign university transfer credit must meet the above criteria as attested by the registrar.

A majority of the coursework applicable to any graduate degree at UMKC must be completed at UMKC. UM traveling scholar credits are not considered transfer credits. However, the sum total of credits from other UM campuses, and other transfer credits (not more than 20 percent of the total credits) cannot exceed 14 credits on a 30-credit master's degree program, or a proportional equivalent (approximately 46 percent) on programs exceeding 30 credits; and must be within the limits stated above.

A student who has been awarded a master's degree at UMKC or another regionally accredited graduate school may petition the faculty to apply up to six hours of graduate credit earned on the
first degree toward meeting the requirements of a second master's degree. Credit, so approved, not from UMKC will be subject to all preceding transfer credit criteria.

See the sections on specific degree programs for requirements pertaining to transfer credit for educational-specialist and doctoral degrees.

After approval of the program of study, graduate credit may be earned at another institution only with prior approval of the dean of the School of Graduate Studies. Forms to request such approval are available from the Registration and Records Office. A current catalog of the institution where the course is to be taken or an official catalog description of each course must be attached to the request form. The official transcript for such work must be forwarded to the Registration Office upon completion of the course.

**Final Master’s Competency Examination**
The final master's competency examination, if required, will be written, oral or both at the discretion of the school or department, and will be passed no later than three weeks prior to the anticipated date of graduation. Students will submit a request for the examination to the adviser no less than two weeks before the examination is to be taken. The candidate's supervisory committee chair will report the results of the final competency examination in writing to the candidate and to the principal graduate adviser (Arts and Sciences) or graduate officer, who will then inform the registrar.

**Thesis Definition**
A thesis is a process that results in an original composition that involves quality work and creativity. This may include definition of goals or research questions, a review of the existing literature or background information, collection of data or information to present as results, and a discussion of results and findings, and citations. The research and final document should be of appropriate scholarly quality, as judged by the thesis committee.

**Thesis Preparation and Approval**
For regulations pertaining to thesis preparation and approval, the reader is directed to Thesis and Dissertation Preparation and Approval Process, included under Graduate Academic Regulations in this section.

**Final Thesis Examination and Supervisory Committee Approval**
The format and procedures of the final examination in defense of the thesis are determined by the supervisory committee and its chair. This examination may not be administered when UMKC is not officially in session. The defense of the thesis is approved when a majority of the supervisory committee members recommend approval and sign the Report of the Result of Final Master's Thesis Examination form and the committee approval page in the thesis.

Within 48 hours of the defense, the supervisory committee chair shall report the results of the final thesis examination in writing to the candidate and to the departmental principal graduate adviser (Arts and Sciences) or graduate officer, who then informs the registrar.
Deposit of Approved Thesis with Libraries
For regulations pertaining to deposit of approved thesis with libraries, refer to Thesis and Dissertation Preparation and Approval Process, included under Graduate Academic Regulations in this section.

Doctoral Degree Programs (Ed.D., Ph.D., D.M.A.)

The Ed.D., Ph.D. and D.M.A. degree programs at UMKC have the following elements in common:
- Appointment of supervisory committees.
- Approval of doctoral programs or plans of study.
- Satisfaction of a doctoral residency requirement.
- Satisfactory completion of a doctoral comprehensive examination in order to advance to candidacy.

In addition, all Ph.D. programs and the Ed.D. program have the following elements in common:
- A work of original research or scholarship reported in dissertation form.
- Formal defense of the candidate's dissertation.

The specific requirements for satisfying these common elements may vary from program to program. Doctoral students are also subject to most of the minimum general graduate academic regulations and degree requirements listed in previous portions of this catalog section.

The following general regulations are minimum requirements. Each degree program may have regulations that are more stringent and would take precedence over the minimums stated previously. Refer also to graduate regulations described in previous sections that are common to all graduate or doctoral students and to degree requirements listed under the academic unit sections of this catalog.

Supervisory Committee
At the request of the non-interdisciplinary Ph.D. student, the D.M.A. student or the Ed.D. student, and upon the recommendation of the student's adviser, the graduate officer for the degree program will appoint a supervisory committee consisting of at least three members of the graduate faculty, including the student's adviser. While the chair of the initial supervisory committee can be a member of the graduate faculty, once the student has reached the dissertation stage, the committee must be chaired by a member of the University of Missouri doctoral faculty.

Non-interdisciplinary Ph.D. and D.M.A. student dissertation committees must have at least five members and Ed.D. student dissertation committees must have at least four members. The majority of the members of the non-interdisciplinary Ph.D., Ed.D. and D.M.A. dissertation committees must be doctoral faculty or regular graduate faculty members. All five members of Interdisciplinary Ph.D. student supervisory and dissertation committees must hold doctoral faculty status. See the Interdisciplinary Ph.D. academic regulations section for additional specifications for Interdisciplinary Ph.D. supervisory committees.
Qualifying Examination
The qualifying examination, if required, will be given before the doctoral program of study is filed with the graduate officer. At the discretion of the school or department and the supervisory committee, a master's degree from UMKC in the area of intended specialization may be considered as a substitute for the qualifying examination. Students must submit a request to take the qualifying examination to the appropriate department chair in the College of Arts and Sciences or the dean of that professional school. The results of the qualifying examination will be reported to the graduate officer, who will inform the student and the registrar. With approval of the adviser and supervisory committee, students may take the qualifying examination a second time.

Doctoral Programs of Study
Students should plan their programs of study in consultation with their advisers and supervisory committees. Forms for specifying individual programs of study are available from the principal graduate adviser or graduate officer of each academic unit. It is recommended that students file this program of study with the graduate officer in their academic units before 60 percent of the coursework applicable to the degree is completed. (Interdisciplinary Ph.D. students must file their proposed plans of study and form their supervisory committees within 24 months of being admitted.) No more than 40 percent of the program may be 300- and 400-level courses. After the proposed program has been approved, as required by the academic unit, the unit's graduate officer will distribute copies of the program of study to the registrar, the adviser and the student. Subsequent changes in the program of study must be approved by the student's adviser, supervisory committee, the dean or department chairperson of the school in whose area the specialization is offered and the graduate officer, who also will inform the registrar of such changes. If cumulative changes in courses and degree requirements exceed four, a revised program of study should be filed.

Transfer Credit
Graduate credit earned before entering a UMKC doctoral program may be applied to the doctoral degree if it is of acceptable quality and appropriate to the student's program of study as determined by the student's academic unit or supervisory committee. The total amount of graduate credit earned before admission to a UMKC doctoral program and applied to the doctoral degree cannot exceed half the number of credit hours, exclusive of dissertation research credits, required for the degree. All graduate coursework, completed prior to admission and not used to earn the master's degree or educational-specialist degree, must be no more than seven years old at the time the doctoral program of study is approved.

After admission to the doctoral program, if a student wishes to take graduate coursework at another institution and apply it to his or her doctoral program, the student must receive written approval from the doctoral program's graduate officer or from the student's supervisory committee chair, as appropriate, before the coursework is taken. Such coursework is not considered as transfer credit. Upon completion of the coursework, the student must have the official transcript forwarded to the UMKC registrar.
Residency Requirements

Interdisciplinary Ph.D. Students:
Interdisciplinary Ph.D. students entering the program after the fall 2000 semester must satisfy the doctoral residency requirement by satisfactory completion of at least 21 credits, exclusive of dissertation research, in no more than 18 months. When satisfying the residency requirement, all Interdisciplinary Ph.D. students are subject to the following restrictions:

1. The doctoral residency requirement must be satisfied no later than the end of the semester in which the student completes his or her comprehensive examinations.
2. Students must achieve a cumulative graduate grade-point average of at least 3.0 in all courses counted toward satisfying the residency requirement.
3. Dissertation research credits (696 to 699) may not be counted toward satisfying the doctoral residency requirement.

Non-Interdisciplinary Ph.D. and Ed.D. Students:
The residency requirement for the Ed.D. student or non-interdisciplinary Ph.D. may be satisfied using the same guidelines stipulated for Interdisciplinary Ph.D. students, or in any one of the following alternate ways:

1. Two consecutive semesters of 12 credits each term of resident coursework at UMKC following the completion of at least 24 credits of graduate study.
2. Three terms of eight credits each term of resident coursework at UMKC, to be completed within 18 months and following the completion of at least 24 credits of graduate study.
3. Two consecutive semesters of nine credits each term of resident coursework at UMKC while employed at least half time for the University in teaching or research and following the completion of at least 24 credits of graduate study.

D.M.A. Students:
The residency requirement for the D.M.A. may be satisfied in any one of the following ways:

1. Two consecutive semesters with a minimum of nine credits each.
2. One semester with a minimum of nine credits and two summer sessions with a minimum of five credits each, provided that the full-time semester is adjacent to one of the summer sessions. It is expected that the summer sessions be consecutive.
3. Completion of 24 credits within 18 consecutive months.

Comprehensive Examination
To advance to degree candidacy, doctoral students are required to pass a comprehensive examination. D.M.A. students selecting a non-dissertation option may satisfy the comprehensive examination requirement during their final semester. For all other doctoral students, the comprehensive examination must be successfully completed at least seven months before the date of graduation:

- For graduation in May: Nov. 1.
- For graduation in July: Dec. 1.
- For graduation in December: May 1.
The following requirements must have been met before students can take the comprehensive examination(s):

1. Assignment of a supervisory committee.
2. Successful completion of the qualifying examination, if required.
3. Filing and approval of the program of study and completion of essentially all coursework required for the degree.
4. If required by the academic unit, satisfactory demonstration of foreign language proficiency through accepted coursework or other evidence specified by the student's supervisory committee.
5. Completion of residency in most cases.

The comprehensive examination may be written, oral or both. Through their advisers, students will apply to the graduate officer in their academic unit for an examining committee to be composed of a minimum of five members of the graduate faculty. This committee shall consist of members of students' supervisory committees and such others as the graduate officer may select.

The examination will be arranged and supervised by the adviser. It will generally terminate within one month after it starts. Upon satisfactory completion of the examination, the student's adviser sends a report of the results of the examination, with the signatures of all members of the examining committee, to the graduate officer, who, in turn, informs the student and the registrar.

A student is considered to have passed the comprehensive examination if all, or all but one member, of the examining committee vote that the candidate passes. If failure is reported, the examining committee will either recommend termination of status as a doctoral student or suggest additional work or other remedial measures. Furthermore, a student who has failed may not take a second examination for at least 12 weeks. Failure of a second comprehensive examination shall automatically preclude candidacy at this institution.

**Program Time Constraints**
The doctoral student must take and pass the doctoral comprehensive examination and advance to candidacy within five years from the beginning of doctoral coursework (within four years if entering with a master's degree in the same or closely related field). After the establishment of degree candidacy, a maximum of five years will be allowed for completion of degree requirements. Failure to complete the work within the periods specified will necessitate re-evaluation of the entire program and may result in a notice of termination. In compelling circumstances and on the written recommendation of a majority of the student's supervisory committee members, the dean of the School of Graduate Studies may grant a one-year extension. Some academic units may impose more stringent time requirements.

**Required Enrollment**
See Continuous Graduate Enrollment Requirement, included in the Graduate Academic Regulations part of this section.
Dissertation and Completion of Degree

Dissertation Definition
A dissertation is a written coherent treatise culminating from original in-depth research, that is of publishable quality for a peer refereed journal and deserving of the highest academic degree, a Doctor of Philosophy. The work should move the field forward by making significant contributions to the existing body of knowledge. It may include statement of goals, an in depth review and critical analysis of the existing literature and background information, a plan of research or methodology, collection and analysis of data to present as results, a discussion of the findings, and citations.

Doctoral Dissertation Requirement
All UMKC Ph.D. degrees and the Ed.D. degree require a dissertation as the final component of the program. The dissertation is also a requirement in some D.M.A. programs and an option in others. The doctoral faculty view the dissertation as one of the most important aspects of the student's experience because:

- It is a work of original research or scholarship that makes a contribution to existing knowledge.
- It is an educational experience that demonstrates the candidate's mastery of research methods and tools of the specialized fields.
- It demonstrates the candidate's ability to address a major intellectual problem.

For regulations pertaining to formatting the dissertation and the process for approval, the reader is directed to Thesis and Dissertation Preparation and Approval Process, included under Graduate Academic Regulations in this catalog section.

Final Dissertation Examination
Final examinations in defense of the dissertation are open to all members of the doctoral faculty, who may attend as interested observers. The format and procedures of the defense are determined by the supervisory committee and its chair. The date, time and location must be announced and published at least two weeks before each final examination takes place. This examination may be conducted only after the dissertation has been approved by the dean of the School of Graduate Studies, and may not be administered when UMKC is not officially in session.

The defense of the dissertation is approved when a majority of the supervisory committee recommend approval and sign the Report of the Result of Final Doctoral Examination form. Within 48 hours of the defense, the supervisory committee chair will report the results of the final dissertation examination in writing to the candidate. For non-interdisciplinary doctoral candidates, the supervisory committee chair also will report the results of the defense to the principal graduate adviser (Arts and Sciences) or graduate officer. The departmental principal graduate adviser (Arts and Sciences) or graduate officer, in turn, informs the registrar.

Deposit of Approved Dissertation with Libraries
For regulations pertaining to deposit of the approved dissertation with the libraries, refer to Thesis and Dissertation Preparation and Approval Process, included under Graduate Academic Regulations in this catalog section.
International Graduate Student Admission Policies and Procedures

General Graduate Admission Policies

Minimum Admission Requirements
Graduates of schools outside the U.S. may be considered for admission to a graduate degree program at UMKC, subject to the following criteria.

1. They must have completed a course of study at least the equivalent of a U.S. baccalaureate degree.
2. They must have above-average grades in previous college study.
3. They are required to establish proof of adequate English proficiency as part of the UMKC admissions process. Applicants from countries in which English might be one of the official languages, but is not necessarily the first language of the majority of the population, must attain a minimum composite score of either 213(CBT) or 80(iBT) on the Test of English as a Foreign Language (TOEFL), or a score of 6.0 on the International English Language Testing System (IELTS) to be considered for admission.* The results of the examination must be received in the UMKC International Student Affairs Office before the application deadline. Exceptions to this policy:
   - Non-native speakers who hold degrees or diplomas from post-secondary institutions in English-speaking countries [the full list of countries may be found here], provided they have spent a minimum of two years in successful full-time study there and English was the medium of instruction.
   - International transfer students from other institutions in the United States or Canada who have spent a minimum of two years in successful full-time study.
4. In addition to 1 through 3 above, international graduate students must satisfy any program-specific admission criteria. For instance, the Graduate Management Admission Test (GMAT) is required for applicants for graduate study toward the M.B.A. degree. Several programs require TOEFL scores that are well above the minimum stated previously. The Graduate Record Examination (GRE), including the appropriate Advanced Test, is either required or strongly recommended for all other international graduate applicants. International students planning to apply are directed to consult the appropriate degree program listing for additional criteria and medical requirements.

*For TOEFL information contact
TOEFL Services
The Educational Testing Service
PO Box 6151
Princeton, NJ 08541-6151 USA
http://www.ets.org/toefl
Request official TOEFL scores be sent to UMKC's institution code 6872.

For IELTS contact
The International English Language Testing System
http://www.ielts.org
Request official IELTS scores be sent to
Detailed information can be obtained from U.S. embassies, consulates general, bi-national centers and other offices throughout the world.

As noted in the general section on graduate admissions, the graduate degree programs at UMKC have varying schedules for receiving, reviewing and acting on applications for admission. Applicants are directed to the program listings elsewhere in this catalog. This institution reserves the right to consider applicants for the most appropriate term.

**Required Academic Records for International Applicants**

Applicants must provide complete and official certificates of all degrees, diplomas, mark sheets, grade reports and examination records. If documents are in another language, applicants must also provide a literal English translation.

International students must present evidence of sufficient finances to cover their university and personal expenses while they are attending UMKC. A prescribed financial statement must be completed and returned with their other application materials. UMKC will not assume any financial responsibility for international students. Students seeking admission to the graduate level after an undergraduate program must submit a new financial support statement. International applicants to graduate programs who want more information and forms to apply for admission can go to http://www.umkc.edu/isao or write:

**International Student Affairs**
University of Missouri-Kansas City
Student Success Center, G-04
5100 Rockhill Road
Kansas City, MO 64110-2499, U.S.A.

Forms to apply for graduate admission can also be downloaded from one of the following Web sites:

- Application forms for admission to master's degree programs, the doctor of musical arts programs and the Ph.D. in counseling psychology: http://www.umkc.edu/apply.
- Application forms for admission to the Interdisciplinary Ph.D. program: http://sgs.umkc.edu/iphd/index.asp.
International Graduate Student Academic Regulations

In addition to the minimum graduate academic regulations and degree requirements common to all graduate students or specific to their particular degree programs, international graduate students at UMKC are subject to the following special requirements and regulations:

Registration with Student Adviser
Admitted international students must clear their attendance and register at the office of the international student adviser prior to their first registration at UMKC. Once admitted, international graduate students must show satisfactory and regular progress toward their graduate degrees.

Health Insurance
International students are required to purchase UMKC mandatory, exclusive health insurance.

English Proficiency Requirements
Proficiency in written and spoken English is essential to international graduate students' success in their degree programs at UMKC. To ensure that all international graduate students either already have, or have an opportunity to acquire, these necessary skills at a level appropriate to their degree program, the Graduate Officers Committee supports the following guidelines:

- Current minimum TOEFL scores for entering students and graduate teaching assistants should be strictly adhered to by all academic units without exception.
- Prior to their first enrollment in classes at UMKC, newly admitted international graduate students must take the English Evaluation Examination conducted by the UMKC Applied Language Institute (ALI) unless they are exempted from this requirement by virtue of having achieved a TOEFL score of at least 600/CBT 250.
- Based on results of the English Evaluation Examination scores, such students must enroll in and successfully complete the applied language courses indicated as necessary by the student's academic unit in consultation with the UMKC Applied Language Institute.
- Prospective international graduate students should be aware that required coursework in English as a second language may add extra time to their individual graduate programs of study.
- The only international graduate students exempted from this policy are the following:
  - Native English speakers from English-speaking countries such as Canada, England, the Republic of Ireland, Australia and New Zealand.
  - Non-native English speakers who hold degrees or diplomas from post-secondary institutions in English-speaking countries (such as the United States, Canada, England, the Republic of Ireland, Australia and New Zealand) provided that they have spent a minimum of two years of successful full-time study and English was the medium of instruction.

Policy on Award of Teaching Assistantships
In 1986, the Missouri State Legislature and the University of Missouri Board of Curators adopted a policy which seeks to guarantee effective, high quality instruction for undergraduates. The state has mandated, and the Board of Curators fully supports the ruling, that graduate students who did not receive both their primary and secondary education in a nation or territory
in which English is the primary language may not hold a teaching appointment during their first term of enrollment at any public institution of higher education in the state of Missouri. In addition, all such students shall be tested for their ability to communicate orally in English in a classroom setting and, those students who have not previously lived in the United States shall be given a cultural orientation to prepare them for teaching prior to receiving an appointment.

The first two requirements are dictated by the Missouri Revised Statutes, Section 170.012, (http://www.moga.mo.gov/statutes/c100-199/1700000012.htm) and do not represent a change to the UMKC certification requirements:

- Students in the above category may not hold a GTA appointment during their first term of enrollment at UMKC.
- If students in this category have not previously lived in the United States, they must participate in a cultural orientation to prepare them for their teaching appointment.

**Note:** Current iBT cost: $175 (hyperlink for Missouri locations and costs below can be found http://www.ets.org/bin/getprogram.cgi?urlSource=toefl&newRegURL=&test=TOEFL&greClosed=new&greClosedCountry=China&browserType=&toeflType=&redirect=&t_country1=group_UnitedStates&t_state=Missouri). **Each student has the responsibility to cover costs to iBT prior to admission.**

**Full Certification (28 or above)**

- To be eligible to be considered for full certification during the current term, students in this category must take the iBT test at UMKC’s Applied Language Institute before the end of the second week of classes and achieve a score of **at least 28.** The iBT test is administered one time at no charge to the student.
- In order to be fully certified to hold a GTA appointment, students must participate in a Cultural Orientation offered each fall semester by the School of Graduate Studies. They must also present a simulated lecture (5-7 minutes in length) that is recorded by a representative in the School of Graduate studies and evaluated by faculty in the department or division where they hope to teach.
- At a mid-point in the semester, students in this category who are certified and receive GTA appointments will be evaluated by students in the classes to which they are assigned and the results of these evaluations will be reported to the chairs of their respective departments or divisions. Based upon the results of these evaluations, the department or divisions may recommend remedial measures.

**Provisional Status (26 and 27)**

With an iBT score between 26 and 27, the student may be **provisionally** certified for a GTA appointment with the following restrictions:

- The student may not be the sole instructor in the class, but must work under the supervision of a faculty member or experienced GTA.
- The student must enroll in English 300F (3 credit hours) during the current term.
- The test can be re-taken as frequently every 8 days (students or their department will be responsible for payment for re-taking the test until they score a 28 or higher).
Once the student scores a 28 or above, they will complete the remaining two requirements for full certification (Cultural Orientation and recorded simulated lecture mentioned under Full Certification).

**Failure to Attain Status (25 or below)**
Any student who takes the iBT test and scores below 26 must use the general alternatives offered through online sites, practice test or classes such as:

- TOEFL Practice Online (http://toeflpractice.ets.org/)
- Strategies for TOEFL iBT Speaking Section (http://i-courses.org/speaking-tips)
- TOEFL Professor Online (http://www.toeflprofessor.com/index.php?pr=Home_Page)

Or through many excellent self-study texts, most with either CD’s or a CD-ROM to accompany, such as:
Barrons
Kaplan
Cambridge
Longman
ETS
Bruce Stirling Speaking and Writing Strategies

Additionally, the Applied Language Institute offers an iBT Prep course (100T) and private tutoring. They also offer a TOEFL Prep course (100T) in the fall and spring semesters, though it is a 12 to 14-week full course, and covers all four sections of the iBT TOEFL. Students could also consider tutoring for on-campus preparation work for the speaking section.

**Graduate Teaching Assistant Certification for Students Whose First Language is not English:**
A graduate student whose first language is not English must have satisfied each of the above standards in order to be certified to accept a GTA appointment. Graduate students whose first language is not English and who are interested in being considered for appointment as teaching assistants may make arrangements for the required iBT test through Testing Services, which is located at 4825 Troost, Suite 206 or call (816) 235-1635.

For information on dates, or to register for the next Cultural Orientation series visit the IGTA Database (https://irapweb.umkc.edu/FormsAuthentication/default.aspx?ReturnUrl=%2freportingapps%2fs gs%2fadmin%2f) or contact the School of Graduate Studies (816) 235-1161

Exceptions to any of these certification standards must be authorized by the dean of the School of Graduate Studies. Departments wishing to request an exception for a student must submit a written petition for exception to the graduate dean, including full justification supporting the request, prior to the beginning of the term for which the GTA appointment is sought.
Intercampus Graduate Study Opportunities

**UM Traveling Scholar Program**

[The following policy is under consideration for revisions. Please check with the School of Graduate Studies if you plan to participate in the Fall of 2011.]

This cooperative program is designed to provide breadth and depth in the opportunities for graduate study offered at the four campuses of the University of Missouri. Advanced graduate students are permitted to enroll on other UM campuses in courses that are not available on their home campus. Normally, enrollment at the host campus is limited to no more than two courses per semester. Only students in good standing who have been admitted to a graduate degree program on the home campus may participate.

Courses completed at the host campus must be applicable toward requirements for the degree sought by students at the home campus, either by way of transfer credit or as resident courses. Interested students should contact the School of Graduate Studies or their principal graduate adviser for additional information.

**Cooperative Doctoral Degrees**

Through the UM cooperative doctoral program, graduate faculty members who hold membership in the doctoral faculty of the University of Missouri are eligible to serve as directors of doctoral dissertations on their resident campus, as well as on any of the other three campuses offering a doctoral degree in the doctoral-faculty member's academic field. Students who want to pursue doctoral degree programs in conjunction with one of the other three campuses of the University of Missouri may do so in accordance with the guidelines listed below. The registrars at UMC, UMR, or UMSL can provide information on admission procedures for the doctoral programs on their respective campuses. The cooperative program is particularly appropriate for students seeking a doctoral degree that is not offered at the campus where they currently are enrolled. Direct specific inquiries regarding participation by doctoral faculty on the UMKC campus to the dean or chairperson of the UMKC academic unit offering a graduate program in the desired field of study.

In the following guidelines, the terms primary campus, graduate school or dean refer to that granting the degree.

- Students must be accepted by the department or area granting the degree and must comply with all the rules of the primary graduate school and discipline/area regulations.
- The dissertation adviser must be a member of the doctoral faculty of the University.
- Advisory/supervisory committees, comprehensive committees and oral committees, as required, will be appointed by the primary graduate dean in consultation with the graduate dean on the participating campus, drawing on faculty on both the cooperating and primary campus:
  1. The makeup of each committee normally will be recommended by the major adviser with the approval of the appropriate director of graduate studies/department chair/divisional dean as per normal campus procedures.
  2. In cases where students are on a cooperating campus:
i. The adviser/supervisory committee chair may or may not be on the same 
campus. If that person is on the cooperating campus, at least three of the 
five members of the committee will be from the primary campus.

ii. Students must complete the residency requirement on the primary campus. 
Exceptions to this ruling must be justified fully with emphasis on quality 
and cost considerations and must have the approval of the primary 
graduate dean.

- Selection of the cooperating departments and preparation of a program must be 
  completed at the earliest possible moment and communicated via the primary graduate 
dean to the participants involved. Both graduate deans will maintain program files 
relative to students. Respective graduate deans are responsible for the quality of that 
portion of the cooperative program that is performed on their campus and under the 
jurisdiction of their faculty.

- Reporting of the degree shall be the responsibility of the primary campus. The 
  cooperating campus shall be given credit in terms of student credit hours and/or 
dissertation credits for the work completed on that campus and shall provide suitable 
recognition of dissertation advisers and the committee members.

Potential Sources of Financial Support for Graduate Study

Graduate Teaching and Research Assistantships
Financial support for graduate students is most frequently provided through the academic unit in 
which the student is enrolled. This support may be in the form of a Graduate Teaching 
Assistantship (GTA), a Graduate Research Assistantship (GRA) or a named fellowship. The 
stipend amounts and number of awards vary from unit to unit. Students interested in 
consideration for such support should contact the principal graduate adviser or graduate officer 
in the respective unit for information on application procedures and deadlines.

Each semester, students who hold GTA or GRA appointments also may be recommended by 
their academic units for chancellor's GTA/GRA fee remission awards. These awards cover the 
basic graduate educational fee for six credit hours.

For students who are not residents of Missouri, an additional benefit of having a GTA or GRA 
appointment is that it qualifies them for a chancellor's non-resident fee remission. A minimum 
FTE of 25 percent (a full-time equivalent of 100 percent is 40 hours) is required to be eligible for 
this award.

Federally Supported Sources of Financial Aid
Graduate students who are U.S. citizens or permanent residents and who are enrolled at least 
half-time, with financial need demonstrated via the FFS analysis, may be considered for aid 
through the College Work Study Program. They also may apply for a Perkins Loan (formerly 
NDSL) or a Guaranteed Student Loan. Additional information on these programs is available 
from the UMKC Financial Aid and Scholarships Office.

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Administrative Center, Room 116
5115 Oak Street
Kansas City, MO 64110-2499
(816) 235-1154 (Kansas City Metro)
1-800-775-8652 (Outside of Metro)

finaid@umkc.edu
http://www.umkc.edu/finaid

Staff members are available for information, inquiries and assistance with applications from 8 a.m. to 5 p.m. weekdays.

**Institutionally Supported Fellowship and Award Competitions**
The School of Graduate Studies administers a number of annual competitions for graduate fellowships. Fellowship stipends vary from $5,500 to $15,000. Some include remission of portions of the graduate education fees and all include remission of non-resident fees, if applicable. Detailed information and application forms are available from the School of Graduate Studies office. Applications normally are due in the early spring (usually by February 1) for fellowships to be awarded for the following academic year. Application deadlines, eligibility and selection criteria, and PDF versions of the application forms are posted on the School of Graduate Studies Web site: http://sgs.umkc.edu.

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Division of Student Affairs and Enrollment Management

Office of the Vice Chancellor for Student Affairs and Enrollment Management
Administrative Center, Room 336
5115 Oak Street
(816) 235-1141
Fax: (816) 235-6504
stu-aff@umkc.edu
http://www.umkc.edu/stu-aff/

Vice Chancellor for Student Affairs and Enrollment Management: Melvin C. Tyler

The mission of the Division of Student Affairs and Enrollment Management is to enrich the lives of students through quality educational services and purposeful co-curricular programming. Our purpose is to support the academic mission of the university by facilitating learning opportunities outside of the classroom that allow students to explore and to develop into life-long learners. The Division works to achieve the university's strategic plan goal 1: place student success at the center.

The out-of-classroom experience is significant at UMKC in that it integrates with our students' academic development to provide an enriched total university life experience. This Division champions a vibrant and extensive co-curricular program which offers support services that help students attain their academic and personal goals.

The Vice Chancellor's Office provides overall leadership for a comprehensive program of student services through 19 service units and 12 academic/student affairs liaisons. Descriptions of divisional departments as well as academic liaison areas are as follows.

- Departments
  - Academic Support and Mentoring
  - Office of Admissions
  - Career Services
  - Counseling, Health, Testing, and Disability Services
    - Counseling Services
    - Student Health and Wellness
    - Testing Services
    - Student Disability Services
  - Financial Aid and Scholarships Office
  - HelpLine
  - International Student Affairs
  - Multicultural Student Affairs
  - Registration and Records
  - Residential Life
  - Student Involvement
  - Student Success Center
Student Affairs Liaisons Located in Academic Units

- College of Arts and Sciences
- Henry W. Bloch School of Management
- School of Biological Sciences
- School of Computing and Engineering
- School of Dentistry Office of Student Programs
- School of Education
- School of Graduate Studies
- School of Law
- School of Medicine
- Conservatory of Music and Dance
- School of Nursing
- School of Pharmacy

**Academic Support and Mentoring**

Academic Support and Mentoring
Student Success Center, Level 2
(816) 235-1174
Fax: (816) 235-5156
asm@umkc.edu
http://www.umkc.edu/asm

Director: Marion Stone, Ph.D.

The mission of Academic Support and Mentoring (ASM) is to promote educational access, retention, and academic excellence for students of all ages throughout our campus, our community, and the world.

Services offered by ASM include the following:

**Supplemental Instruction**

Supplemental Instruction (SI) is an academic support model that utilizes peer assisted study sessions. The SI program targets traditionally difficult academic courses and provides regularly scheduled, out-of-class review sessions. The SI study sessions are informal seminars in which students compare notes, discuss readings, develop organizational tools, and predict test items. This form of academic assistance is attached directly to selected courses at the undergraduate, graduate and professional school levels. SI services are announced at the beginning of each semester by the course professor and SI leader. This program was developed at UMKC in 1973 and is used in hundreds of colleges and universities around the world. The center also conducts training workshops and provides on-site training to other institutions.
Video-Based Supplemental Instruction

The Video-Based Supplemental Instruction program (VSI) is a highly structured approach to learning that helps students master course content as they develop and refine reasoning and critical thinking skills. In VSI, professors of core curriculum courses record their lectures on videotape and students are enrolled in a video section of the college course. In the video sections, trained facilitators use the taped lectures as a tool and guide students through the learning cycle.

UMKC Coaching Program

The UMKC Coaching Program provides first-year students with the skills necessary for their journey at UMKC by assisting them in becoming engaged with the University community and promoting lifelong learning through critical thinking and social awareness. Each student is paired with a peer coach who works one-on-one with the student to set goals, refine study skills and explore resources available at the University. Additionally, students are placed in groups led by UMKC faculty or staff members. The groups meet weekly to enhance critical-thinking skills and study skills.

Math and Science Tutoring

Math and Science Tutoring (MaST) is dedicated to providing individual attention to math and science students, and to increasing retention efforts. MaST is staffed by trained part-time tutors who offer assistance to UMKC students at no additional cost. Help is offered on a walk-in basis, by appointment, or online; students may work individually or in small groups with tutors. Textbooks and solution manuals are available. Math courses covered include Math 100, 110, 116, 120, 125, 130, 140, 206, 210, 220, and 235. Science courses covered include Biology 108 and 109, Chemistry 211 and 212, and Physics 240 and 250.

English Tutoring

English Tutoring supplements the services of The Writing Studio and provides support for students at every level. Some of the services include editing, reinforcement of grammar, composition, punctuation, and spelling skills. Assistance is available on a walk-in basis, by appointment, and online.

Reading Enhancement

Reading Enhancement provides students opportunities to bolster their higher level reading in order to be more successful at the University level. Services include assessment, assistance with vocabulary and comprehension, organization of reading assignments, and managing complex reading coursework. Help is available by appointment and in workshop format.
Jumpstart AmeriCorps

Jumpstart joins together dedicated college students, called Corps members, and preschool children from low-income communities. Jumpstart AmeriCorps members have the unique opportunity to inspire young children to learn, serve in a local community, work on a team, and build professional skills. All Corps members receive professional-caliber training to help them implement Jumpstart’s outcome-based program, promote children’s school success, and become stronger citizens. Upon completion of a term of service with Jumpstart, college students receive a $1,175 Education Award from AmeriCorps. Jumpstart is working toward the day every child in America enters school prepared to succeed.
Admissions

Admissions Administrative Center, Room 120
5115 Oak Street
(816) 235-1111 (Kansas City Metro)
1-800-775-8652 (Outside of Metro)
Fax: (816) 235-5544
admit@umkc.edu
http://www.umkc.edu/admissions

Mailing Address
University of Missouri-Kansas City
Admissions
5100 Rockhill Road
Kansas City, MO 64110-2499

Director: Tamara Cloutier Byland

This office is responsible for recruitment, admissions and orientation. See the General Undergraduate Admissions Policies and Procedures section of this catalog for additional information.

Admissions

The Office of Admissions coordinates the admission of domestic students to undergraduate, graduate and professional programs, as well as visiting, community, and dual credit high school program applications to the university. Applicants to the School of Law and School of Dentistry should refer to those sections of the catalog. Domestic students include Permanent Residents and students who have been granted Assylee or Refugee status. International students apply through International Student Affairs.

Recruitment

The office also coordinates the recruitment of students to all undergraduate programs. Recruitment programming includes coordinating communication campaigns with prospective students, creating print and electronic recruitment materials, attending college fair programs, high school and community college visits. Requests for information about UMKC and its academic programs are handled through the Communications Center in the Office of Admissions. E-mail us at admit@umkc.edu for information.

Orientation

In conjunction with the Office for Student Involvement, the Office of Admissions coordinates orientation programs for new freshmen and transfer students. Admitted students receive
information about orientation in late spring. Orientation is mandatory for new freshmen and optional for transfer students.

**Welcome Center**

The Welcome Center is the central location for greeting campus visitors, including prospective students and their families. Campus visits usually include a tour and an opportunity for guests to meet with an Admissions representative in their area of interest. Customized tours are also available for groups or individuals who have specialized interests or needs. Large group visits such as UMKC Preview Days are also coordinated in the Admissions Welcome Center. The Welcome Center is located in the Student Success Center, Level 1. To schedule a visit to UMKC, go to the Welcome Center website.

**Communications Center**

The Communications Center coordinates initial data entry for inquiries to UMKC and provides responses from the university. All Purchased student prospects and inquiry records are managed in the Communications Center as are the campaigns (mail, email, call) to prospective undergraduate students.
Career Services

Student Success Center, Level 2
(816) 235-1636
Fax: (816) 235-5534
careerservices@umkc.edu
http://www.career.umkc.edu

Director: Greg Hayes

The mission of Career Services is to empower students and others to successfully develop, evaluate, and initiate career planning and professional development within a constantly changing work environment.

The Career Services staff is a select group of professionals representing a wide array of backgrounds. All are trained in current trends and provide a variety of programs and services in career planning, life planning and development. Professional staff can assist students in career exploration and effective career decision-making. The Career Services Center offers ED 160, Career and Life Planning, in the fall and spring semesters for two credit hours.

Career planning services include choosing an academic major, assessment of interests and values, goal clarification and enhancing skills such as resume writing, interviewing and conducting a job search. Students have access to a library of current reference materials related to career planning. Students may schedule individual appointments with career counselors for purposes of career assessment.

To enhance placement of UMKC students and graduates, Career Services maintains on-campus recruitment programs, sponsors job fairs and career days and develops and maintains contact with local, national and international employers.

Students may find internships, work-study and on-campus jobs, and part- and full-time positions in Roo Career Network. Roo Career Network is our system to promote student and employer connections by allowing students to create job alerts, schedule appointments, request interviews, and communicate with alumni mentors. Visit our Web site (www.career.umkc.edu) to access Roo Career Network and watch the University News for activities sponsored by Career Services and for on-campus recruiting schedules.

Career Services also provides a full range of career planning and development services for UMKC alumni. For additional information, call (816) 235-1636.
Counseling, Health, Testing, and Disability Services

The mission of Counseling, Health, Testing, and Disability Services is to provide high quality and comprehensive psychological, health, testing, and disability services which support the personal and academic potential of individuals and programs in a diverse campus community. These offices combine multiple services to promote the emotional, mental and physical well-being and academic success of the campus community. Dr. Marita Barkis is the executive level director over all these services.

Executive Director of Counseling, Health, Testing and Disability Services/Director of Counseling: Marita Barkis, Ph.D.

Counseling Center
4825 Troost Avenue, Suite 206
(816) 235-1635
Fax: (816) 235-6350
http://www.umkc.edu/chtc/counseling

Associate Director of Counseling: Arnold Abels, Ph.D.
For more information, see the Counseling Center section.

Student Health and Wellness and Student Health Pharmacy
4825 Troost Avenue, Suite 115
(816) 235-6133
Student Health Pharmacy (816) 235-6103
studenthealth@umkc.edu
http://www.umkc.edu/chtc/health

Administrator/Nurse Practitioner: Scott Thompson, R.N., B.S.N., M.S.N., F.N.P.
For more information, see the Student Health and Wellness section.

Testing Services
4825 Troost Avenue, Suite 206
(816) 235-1635
http://www.umkc.edu/chtc/testing
Associate Director of Testing: Jim Wanser
For more information, see the Testing Services section.

Student Disability Services
4825 Troost Avenue, Suite 104
(816) 235-5696
Fax: (816) 235-6363
disability@umkc.edu
http://www.umkc.edu/disability
Coordinator: R. Scott Laurent
For more information, see the Student Disability Services section.
Counseling Services

4825 Troost Avenue, Suite 206
(816) 235-1635
Fax: (816) 235-6350
http://www.umkc.edu/chtc/counseling

Executive Director of Counseling, Health, Testing and Disability Services/Director of Counseling: Marita Barkis, Ph.D. Associate Director of Counseling: Arnold Abels, Ph.D.

Counseling Services is one of the areas in the Counseling, Health, Testing and Disability Services. The mission of Counseling Services is to provide services to foster the psychological well being, personal development and educational potential of our diverse students, faculty, staff and campus community.

We know that being a college student means more than attending class, reading textbooks, and taking tests. Life happens; most UMKC students have a lot of things on their plate to deal with other than academic tasks and expectations. The people at Counseling Services understand this and are here to help. Sometimes, that may mean learning more effective ways to balance time, manage stress, and handle relationships. Other times, it may mean dealing with depression, anxiety, risky behaviors, or other serious mental health concerns. These are all things that the professional staff of Counseling Services are equipped to assist with, in a confidential and professional setting.

In a recent survey of Counseling Services clients…
…86% said that the problem(s) that brought them to visit Counseling Services have improved;
…87% said they would return if they were to experience problems in the future; and
…91% said they would recommend Counseling Services to a friend.

If you need assistance, take the advice of your fellow students and consider talking with one of our counselors. We are here to help!

Counseling Services

- Individual Counseling can focus on such concerns as relationship issues, anxiety, depression, procrastination, eating disorders, loss, loneliness, indecision, academic problems, crisis intervention, stress management and strengthening of social skills.
- Couples Counseling is available when one or both partners are affiliated with UMKC. Relationship counseling focuses on improving or understanding relationships like those between partners, spouses, roommates, and friends.
- Group Counseling offers a great opportunity for UMKC students to learn about themselves and their relationships with others and work on interpersonal concerns in a
professionally facilitated exchange with others. General interpersonal process therapy groups are regularly offered, while topic-themed groups (e.g., stress reduction) are occasionally offered. Group therapy is free and unlimited for students.

- Psychological Assessment services help students better understand their emotional or learning concerns. The Assess for Success program specifically assesses learning concerns and Attention Deficit/Hyperactivity Disorder (ADHD). Call 235-1635 and ask for the Assess for Success program for more information.

- Clients of the Center who would benefit from medication consultation or management are either referred to Student Health or outside providers for such services.

- A Multidisciplinary Eating Disorder Treatment Team provides support for the physical, emotional, and nutritional health of clients with eating disordered behaviors.

- Consultations with students, faculty, staff and parents are available about their concerns only without revealing who is a client as is dictated by law and ethics.

- Workshops and Presentations for students and staff on a variety of topics are available. Student organizations that have program needs can contact the office by phone or the web.

- Alcohol and Drug Services are available, including consultations, individual counseling, and outreach programs.

**Fees, Appointments and Confidentiality**

All students, faculty and staff are eligible for services. Students receive up to eight free counseling sessions every academic year and additional sessions are $15/session. Sessions for faculty and staff are $20/session. Testing fees are determined on a case-by-case basis. Services are offered at 4825 Roost as well as limited hours on Hospital Hill.

Visits to the Center and the contents of discussions with the staff are strictly confidential. No information regarding clients is released to any person, agency, or University personnel without written permission of any client 18 and older, unless mandated by state law.

Call (816) 235-1635 for an appointment or additional information.

**MindBody Connection**

Student Health and Wellness partners with the UMKC Counseling Center to provide the MindBody Connection.

The MindBody Connection supports students' life balance and holistic health and wellness through a variety of experiential activities and resources. The college experience can be stressful and challenging even for the strongest of students; the MindBody Connection strives to help students with stress reduction and strengthening of coping and life skills that foster college success. The MindBody Connection’s motto is “Take Care of Yourself,” focusing on physical, mental, and emotional wellness as integral to supporting students in attaining their educational goals.
Interactive services and programs include:

- Relaxation Station with massage chair, soothing musical background, and aromatherapy
- Catch the emWave by HeartMath (stress management/heart coherence biofeedback software)
- Tuesday Tune-Ups (weekly programs on a variety of stress reduction practices including creative, movement, and meditative activities)
- Wii Hours of the Day (offered later in the day after quiet hours)
- Staff on site to help with questions and guidance

Students can use the quiet space in the central room for a resting stop in a busy day or as a space to study or use the computer stations for personal use. A reading library is available for exploring ideas and sharing of creative expressions. Educational materials related to holistic health & wellness are available at the Connection as well as an opportunity to take a quick assessment of how one is doing in various life domains, identifying strengths and challenges or growth edges. Staff at the Connection can help with recommendations and connections to campus, community, or web resources that can further assist students in identified areas. Additional resources for our students who are veterans are also available.

The MindBody Connection is located on Level 1 of the Student Success Center, open daily and is supported collaboratively by the campus Student Health & Wellness Services and the campus Counseling Center. For more information about the MindBody Connection, visit the suite or http://www.umkc.edu/mindbody or email mindbody@umkc.edu.
Student Health and Wellness and Student Health Pharmacy

Student Health and Wellness
4825 Troost Avenue, Suite 115
(816) 235-6133
Student Health Pharmacy (816) 235-6103
studenthealth@umkc.edu
http://www.umkc.edu/chtc/health

Administrator/Nurse Practitioner: Scott Thompson, R.N., B.S.N., M.S.N., F.N.P

Student Health and Wellness is one of the areas in the Counseling, Health, Testing and Disability Services. The mission of Student Health and Wellness is to provide quality health care and health promotion that maximizes student learning potential.

Student Health provides assessment of acute and chronic health problems and treatment and/or referral as appropriate. Student Health personnel include nurse practitioners, registered nurses, a pharmacist, and administrative personnel. There is no visit charge for currently enrolled UMKC students; additional services or laboratory testing may involve a charge. These additional charges can be paid for with cash, check or charged to the student's UMKC account.

Student Health and Wellness services include: well-woman exams, blood pressure measurement, contraceptive counseling, first aid (non-emergency), immunizations (including Hepatitis A and B, meningitis, MMR, tetanus [TDaP], gardisil, and seasonal flu shots), physical examinations, STD testing, travel consultation, allergy injections with student-furnished serum, and tuberculosis screening.

A part-time pharmacy is also available at Student Health to fill prescriptions, which can be paid for with cash, check or charged to the student's UMKC account. For further information or specific medication questions, call the pharmacist at 816-235-6103.

Health promotion services include informational brochures, updated web information, health fairs, and classroom presentations. Student Health reaches out to students with programming related to healthy sexual behaviors, alcohol and drug awareness, safe driving, nutrition and a promotion of a well-rounded integration of mental and physical health. A student desiring specific health information may contact Student Health and Wellness by phone (816-235-6133) or e-mail studenthealth@umkc.edu.

Student Health is open Monday - Friday and offers late afternoon appointments two days per week. Students can make an appointment by calling 816-235-6133 or an appointment can be made from the website. More information about services and health information is available at http://www.umkc.edu/chtc/health.
MindBody Connection

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Student Disability Services

4825 Troost Avenue, Suite 104
(816) 235-5696
Fax: (816) 235-6363
disability@umkc.edu
http://www.umkc.edu/disability

Coordinator: R. Scott Laurent

Student Disability Services is one of the areas in the Counseling, Health, Testing and Disability Services. The mission of Student Disability Services is to educate and support the UMKC community to understand the unique challenges, myths and stereotypes faced by people with disabilities; to recognize the unique contributions that people with disabilities make to society; to accept and engage people with disabilities in the daily flow of life; and to provide reasonable accommodations to help students demonstrate their abilities, knowledge and skills. The office is committed to ensuring that students with disabilities feel welcomed and supported at UMKC, that they are engaged in the campus community, that they feel that UMKC is their university and that UMKC is responsive to their unique needs.

Student Disability Services provides programming and supportive services at no charge to students with a disability. Our primary mission is the provision of reasonable and appropriate academic accommodations. While all accommodations are based on the functional limitations caused by a disability, common accommodations are extended exam time, peer notetakers, exams in reduced distraction rooms, textbooks in alternate formats, and sign language interpreters. Other accommodations may be available depending on the need caused by the disability.

To receive services through this office, students must have a disability that has been documented by a qualified medical or clinical professional. The documentation should be comprehensive, usually not more than three years old, and should detail the functional limitations caused by the disability. For further information on documenting your disability please see our website at http://www.umkc.edu/disability. Students should contact the office as soon as possible to arrange for accommodations so as to avoid delays in the provision of accommodations.
Testing Services

4825 Troost Avenue, Suite 206
(816) 235-1635
Fax: (816) 235-6350
http://www.umkc.edu/chtc/testing

Associate Director of Testing: Jim Wanser

Testing Services is one of the areas in the **Counseling, Health, Testing and Disability Services.** Its mission is to provide high quality and comprehensive testing services which support the personal and academic potential of individuals and programs in a diverse campus community. Testing Services provides a comprehensive offering of examinations for admission, licensure, and professional certification to both students and community constituents. Services include the administration of all exams offered through PROMETRIC, including the GRE, TOEFL, MCAT, CPA, USMLE, FINRA/NASD, etc. In addition, the ACT, LSAT, MAT, and C-Base are routinely offered for academic admission. For licensure and certification, the PRAXIS and CFP are offered on all national test dates. The CLEP program is also offered to interested students, as well as test proctoring services for correspondence, on-line, or distance education courses.

University Assessment/Exit Exams (ETS-PP and Major Field Exams) are also administered through Testing Services. Students may schedule exams at http://www.umkc.edu/exitexams.

Testing Services is open **Tuesday through Saturday** from 7:30 am to 4:30 pm. All tests are administered by appointment on space available basis. Government issued I.D. (driver’s license, passport, or military I.D.) is required for all exams and there are prepaid fees associated with most exams. Registration for national examinations is typically on-line or through the Testing Center at (816) 235-5820 or -1635.
The Financial Aid and Scholarships Office has two major functions: (1) to provide financial assistance to students who otherwise would be unable to attend UMKC and (2) to administer campus-wide merit- and talent-based scholarship programs. Extensive information plus a number of free scholarship search opportunities are available on our web page.

Financial aid is intended as a supplement to the students' own resources. Families are expected to contribute from income and assets to the extent they are able, and students are expected to contribute from assets, summer employment and part-time employment during the school year. Costs for students vary greatly, but only modest budgets can be supported through financial aid programs. Students who have high standards of living or large debts may find that financial aid funds alone will not be sufficient.

To apply for aid, students must apply for admission or readmission to UMKC and must submit a Free Application for Federal Student Aid (FAFSA). For priority treatment, the FAFSA should be filed by March 1 preceding the academic year in which financial aid is desired.

In awarding aid, the Financial Aid and Scholarships Office will determine the student's eligibility for amounts and types of aid. Most aid packages are awarded for the academic-award year (fall and spring terms); however, aid for summer term applicants is awarded as funds are available.

The types of student financial aid are:

- Scholarships and grants, which are gift aid amounts not requiring repayment.
- Long-term loans repayable after termination of schooling at low interest rates.
- Short-term loans repayable within the same academic period.
- Employment in the Federal Work-Study Program.

To be eligible for most aid, students must maintain satisfactory academic progress, and be regularly enrolled in at least a half-time academic course load. Federal programs also require U.S. citizenship or permanent residency. Many programs require financial need, although student loans are generally available regardless of financial need.

UMKC defines and measures what is considered Satisfactory Academic Progress (SAP) toward certificate/degree completion for financial aid eligibility. The policy falls within federal
guidelines and must measure quality (GPA) and quantity (number of credit hours successfully completed). The policy is different for undergraduate, graduate and professional students. Students enrolling in their first semester at UMKC and students who are readmitted to UMKC are considered to be making satisfactory progress. Eligibility is checked at the end of each semester. This policy is applicable with respect to eligibility for all types of federal, state and university financial aid administered by the UMKC Financial Aid and Scholarships Office. Satisfactory Academic Progress requirements are detailed on the following website: http://www.umkc.edu/finaid.

New freshman and transfer students accepted to the University by March 1 are automatically considered for several merit-based institutional scholarships. In addition, incoming freshman and transfer students may apply for competitive scholarships online at http://www.umkc.edu/finaid by February 1. Scholarship recipients must be enrolled full-time and earn a specified GPA for renewal. All offers of scholarship and aid eligibility are made in writing to students completing the application process.

Most types of aid are applied directly to the student's fee charges. Any remaining balance of aid and any checks from outside sources are normally disbursed by check to the student or by direct deposit to the student's bank account through the Cashier's Office. Aid is generally available in proportionate amounts at regular registration periods. Earnings in the Federal Work-Study Program, however, are paid biweekly for actual hours worked.

Aid recipients are responsible for promptly informing the Financial Aid and Scholarships Office of any changes in financial status, reduction of course load, changes from undergraduate to graduate status, or total withdrawal. The Financial Aid and Scholarships Office may be required to return all or a portion of aid based on a change in enrollment status. Address changes should be made promptly through the UMKC Registration and Records Office.

Aid from all sources, including external ones, must not exceed the federally regulated cost of attendance. For that reason, students must report all aid awarded through other sources to the Financial Aid and Scholarships Office.

For the most up-to-date information regarding specific financial aid awards available at UMKC visit the Financial Aid and Scholarships website at http://www.umkc.edu/finaid.
**HelpLine**
Administrative Center, Room 336  
5115 Oak Street  
(816) 235-2222  
FAX: (816) 235-6504  
helpline@umkc.edu  
http://www.umkc.edu/helpline

The UMKC HelpLine/Ombudsman function offers a confidential, independent and neutral resource for problem solving and information sharing for our campus community. Contact the HelpLine with questions and concerns about University policies and procedures. The HelpLine serves students, staff, faculty and the community via phone, e-mail, walk-ins and appointments. For more information, visit http://www.umkc.edu/helpline.

The HelpLine is located in the Office of the Vice Chancellor for Student Affairs and Enrollment Management in the Administrative Center room 336, and can be contacted at (816) 235-2222 or via e-mail at helpline@umkc.edu. The HelpLine is also the contact for information on the Student Accident and Sickness Insurance.
International Student Affairs
Student Success Center, Level 0
Tel: (816) 235-1113
Fax: (816) 235-6577
isao@umkc.edu
http://www.umkc.edu/isao

Director: Sandy Gault

International Student Affairs (ISA) recruits, admits, orients, advises and retains international students and scholars. International students are defined as those students who have entered the United States on a nonimmigrant visa or have a U.S. permanent resident application pending with the U.S. Citizenship and Immigration Services. UMKC is authorized by federal law to issue form I-20 and DS-2019 to nonimmigrant students and is responsible for ensuring adherence to institutional and federal regulations.

ISA evaluates international transcripts to determine admissibility by converting international credits and grades and determining recognition status of international institutions in comparison to regional accreditation in the U.S.

For more information on international admissions please see Undergraduate International Student Admission Policies and Graduate International Student Admissions Policies.

ISA provides international students, scholars and their families with a successful and productive experience at UMKC and Kansas City, promotes and supports cultural opportunities, and provides social and cultural programming.

ISA supports student success by providing: pre-departure and post-arrival orientation, new arrival housing services, monthly newsletters, optional and curricular practical training assistance, F & J visa advising, referrals to campus services, partnerships with academic advisors, and support for campus nationality groups, International Student Council, the International Student Ambassador Program, and much more.


Those who have been granted asylum or refugee status in the United States or individuals who have been granted Permanent Residence will apply for admission through the UMKC Admissions Office located in the Administrative Center.
The mission of Multicultural Student Affairs is to enhance and improve the college experience of students of color at UMKC. The office also serves to educate the campus community on the multicultural experience. Our mission is accomplished by:

- Maintaining an open door policy; constantly striving to place students at the center and supporting student success.
- Providing a comfortable, resourceful, and safe space for students to utilize in the Student Union.
- Interacting with and assisting students through formal and informal mentoring and coaching. Part of these interactions involves encouraging and supporting students to participate in campus activities and organizations and to take advantage of the many leadership opportunities available to them. We also assist students in locating and utilizing resources on campus and in the community.
- Planning a variety of activities and events throughout the academic year that stimulate educational, cultural and social growth. These activities include interactive discussions, community outreach programs, traditional events during African American History Month and Hispanic Heritage Month, and the Multicultural Graduation Reception.
- Supporting and advising multicultural student organizations including TAASU (the African American Student Union), ALAS (the Association of Latin American Students), NAACP (the National Association for the Advancement of Colored People), Lambda Theta Phi Latino Fraternity, Inc., NPHC (the National Pan-Hellenic Council), and many more.
- Collaborating with other departments, academic units and student organizations to further enhance our programs so that we can adequately meet the needs of students of color at UMKC.

Through these services and programs, we assist students of color to become integrated into the academic and social systems of campus life. Our office serves to complement the classroom experience of students at UMKC.

Multicultural Student Affairs also directs the activities of the **African American History and Culture House** (affectionately known as the Culture House). The mission of the Culture House is to increase and enrich the general understanding of African American history and culture. The Culture House serves as a place for students to study, hang out, attend events and meetings and meet other students. The Culture House has study and meeting areas, an art gallery, a computer lab and a TV lounge. The Culture House also sponsors events and art exhibits throughout the year.
Office of Registration & Records

Registration and Records  
Administrative Center, Room 115  
5115 Oak Street  
(816) 235-1125  
Fax: (816) 235-5513  
registrar@umkc.edu  
http://www.umkc.edu/registrar  
http://www.umkc.edu/quickguide

Registrar: Douglas E. Swink

The mission of the Registration and Records Office is to provide accurate and professional services to ensure the integrity of official student records while enforcing academic policies. Services provided by the Registration and Records Office include the following:

- Preparation of the schedule of classes.
- Registration for students in all UMKC academic units.
- Administration of degree processing.
- Monitoring of undergraduate and graduate student academic probation.
- Maintenance of all official, permanent student records.
- Maintenance of class lists, grade rolls, transcripts and enrollment reports.

See the Academic Regulations and Information section earlier in this catalog for additional information and complete contact information.

Veterans Affairs

The UMKC Student Veterans Virtual Resource Center is a comprehensive website dedicated to providing military Service-members and Veterans with tools and resources to be successful students. On this site there is information about campus resources and GI Bill benefits, Missouri residency requirements, acquiring military transcripts and records, and the UMKC Student Veterans Organization. This site also provides links to many other Service-member and Veteran specific resources and organizations available on campus, in the community, and nationally. UMKC salutes and supports our student Service-members and Veterans and invites them to become an integral part of our campus community.

The Veterans Certifying Official in the Registration and Records Office must be contacted for certification of enrollment for the Department of Veterans Affairs. It is the responsibility of the student to contact this office if any changes are made to enrollment status. Failure to do so can result in overpayments or the failure to receive benefits. The phone number is (816) 235-1125.
Residential Life

Residential Life Business Office
Oak Street Residence Hall, Room 2004
5051 Oak Street
(816) 235-8840
Fax: (816) 235-8114
housing@umkc.edu
http://www.umkc.edu/housing

Mailing Address
University of Missouri-Kansas City
Residential Life
5100 Rockhill Road
Kansas City, MO 64110-2499

Director: Kristen Abell

All of UMKC's residential facilities are conveniently located on the west side of campus, near the Student Union, Student Success Center (cafeteria), Swinney Recreation Center and within easy walking distance to all other Volker campus buildings. UMKC residence halls house approximately 880 students and are both less than eight years old. Both Oak Street Residence Hall and Herman and Dorothy Johnson Residence Hall feature semi-private bathrooms, social and quiet study lounges, music practice rooms, kitchenettes on every floor, large indoor and outdoor recreation and lounging areas and a high-tech classroom. UMKC's Oak Place Apartments is a 500 bed apartment complex serving the needs of second year students through graduate students. The apartments are fully furnished with all utilities paid in 1, 2 and 4 bedroom units. All UMKC Residential Life facilities have wireless and Ethernet hook-ups for every student, cable television hook-ups and microwave/refrigerator units all in student rooms.

Research has shown that over 50% of all learning that takes place at the University occurs outside the classroom. Studies also show that students who live on campus have a higher rate of academic success than those who live off campus. The average GPA for on-campus students is 3.10, compared to 2.68 for students living off-campus. The location of our facilities encourages student participation in campus events and activities, and our staff are trained to provide support and resources for all students living there. Residential Life at UMKC invites you to participate in the learning experience that it can offer to you – become one of our 1500 diverse learners from all over the world!
The mission of the UMKC Office of Student Involvement (OSI) is to actively encourage student development, foster leadership, celebrate diversity, and facilitate co-curricular and community engagement for all students.

The Office of Student Involvement provides students the opportunity to develop personally and professionally through their leadership and engagement. Located on the DISCOVER (Diversity, Involvement, Student Government, Campus Organizations, Volunteer, Engagement, and Retention) floor in the Student Union, OSI is here to assist you in getting involved in one of more than 250 campus organizations and leadership opportunities.

The main functional areas that embody OSI include:

- Activity and Program Council (APC)
- Associated Students of University of Missouri (ASUM)
- Campuswide Honor Societies
- Clubs and Organizations
- Communiversity
- Departmental Honorary and Professional Societies
- Leadership and Service Programs
- LGBTQIA Programs and Services
- Social Fraternities and Sororities
- Student Government Association (SGA)

**Activity and Program Council (APC)**

5100 Cherry Street
Student Union, Suite 320
Phone: 816.235.1457
Fax: 816.235.5590
https://roogroups.collegiatelink.net/organization/APCactivities

The Activity and Program Council (APC) plays an integral role in creating a vibrant campus experience for students. The purpose of APC is to provide quality social, educational, and entertainment-based activities and programs to the UMKC student body that address emotional, intellectual, occupational, physical, social, and spiritual well-being.
APC strives to provide students with opportunities for leadership development, programming, and arts and events management. Students are always welcome to join The Mob—APC’s spirit group which helps execute events throughout the academic year. Students are also encouraged to apply to become an executive member!

Associated Students of University of Missouri (ASUM)
Student Union, Room 303J
Phone: 816.235.1231
http://studo.umkc.edu/asum/index.htm

The Associated Students of the University of Missouri (ASUM) provides education for students about the political process, provides the public with information concerning student interests, increases political awareness, concern, and participation among students, and represents the interests and welfare of Missouri students before the General Assembly, the Board of Curators, the Governor, and other executive agencies.

ASUM supports a variety of programs on campus throughout the year to increase student awareness and involvement in the legislative process.

Campuswide Honor Societies

- **The Delta Alpha Chapter of Mortar Board** at UMKC is one of the nearly 200 national chapters of this senior honor society. Juniors are annually selected for membership on the basis of scholarship, leadership and campus and community service. UMKC's Mortar Board chapter, installed in 1973, emphasizes University service.
- **Omicron Delta Kappa** is a national leadership honor society of students and faculty members, with circles on more than 200 college campuses throughout the country. The society recognizes and encourages the achievement of superior scholarship and leadership. Membership is granted on the basis of merit. Once achieved, it becomes as much an obligation and responsibility in citizenship as it is a mark of highest distinction and honor. In addition to the prestige that accompanies membership in Omicron Delta Kappa, all members are expected to engage cooperatively in effective leadership and services for the good of the institution and the community.
- **Phi Kappa Phi**, founded in 1897, was the first national honor society to recognize superior scholarship in all fields of study and to take into membership the highest-ranking student from all branches of learning. UMKC's chapter was constituted and installed with 16 faculty members on March 28, 1969. The national honor society replaced Torch and Scroll, the scholastic honorary which had served the University of Kansas City and then the University of Missouri-Kansas City. Each year, the highest-ranking students in the University are elected into membership.
- **Golden Key** is an international academic honors organization dedicated to excellence. The society is interdisciplinary and unites the talents of the brightest undergraduate students in America. Students qualify on the basis of objective academic criteria. No more than
the top 15 percent of the juniors and seniors enrolled may be eligible. Members are actively involved with various community service projects.

- **Order of Omega** is the leadership honor society for social Greek organizations. The purpose of Order of Omega is to recognize those Greeks who attain a high academic and leadership standard, to bring together the most representative fraternity and sorority members to address local or intercollegiate affairs and to bring together members of the faculty, alumni and Greek system on a basis of mutual interest, understanding and helpfulness.

- **Alpha Sigma Lambda** provides an association for and recognition of academically outstanding adult/returning students in continuing higher education. The society is a nonprofit organization devoted to the advancement of scholarship.

- **Phi Beta Delta** was founded in 1986 and established itself as a national organization in 1987 with 38 chapters. The goal is to recognize the scholarly achievement of international students and scholars, U.S. students who have studied abroad and faculty and staff who are involved in international activities. They serve as a vehicle for development of academic-based international programming, provide an on-campus network of faculty, staff and students involved in international endeavors and works to extend this network to thousands of members in chapters nationwide.

- **Alpha Lambda Delta** honors excellent academic achievement by students in their first and second year of study in higher education. The society has numerous programs to encourage continued superior classroom performance, such as awards, national workshops, campus activities, scholarships, fellowships and loans for undergraduate, graduate and professional study.

For more information about campuswide honor societies call (816) 235-1407.

**Clubs and Organizations**
The University of Missouri—Kansas City has over 250 student organizations that embody a wide variety of interests including cultural, educational, recreational, and social clubs. Students can get involved through co-curricular opportunities and foster new interests as members of student organizations.

Students who are involved on campus tend to have a better connection with the university, perform better in the classroom, and are selected to professional and graduate programs at a higher rate than those students who do not get involved.

Each fall the Office of Student Involvement hosts a student organization fair where students can learn more about the myriad of student organizations on campus. And, if you can’t find what you’re looking for, you can always create your own student organization!

To obtain more information, visit https://roogroups.collegiatelink.net or call 816.235.1407.
**CommUniversity**
Communiversity is an informal learning program offering free, non-credit courses to UMKC students (and the Greater Kansas City community for a small fee). More than 900 classes are offered each year by volunteer instructors from the campus and community.

Classes can be found in art appreciation, leading healthier lifestyles, dance lessons, cooking classes, outdoor adventure, psychic topics, and more.

For more information and to check out the schedule of classes, visit http://www.umkc.edu/commu or call 816.235.1448.

**Departmental Honorary and Professional Societies**
Several academic disciplines offer honor societies that select members on the basis of grades and class standings. Honoraries are offered in the following Schools and departments:

- Bloch School of Management
- College of Arts and Sciences (specifically the Departments of Sociology, Criminal Justice and Criminology, Communication Studies, Economics, English, Geosciences, History, Physics, Political Science, and Psychology)
- Conservatory of Music and Dance
- School of Biological Sciences
- School of Computing and Engineering
- School of Dentistry
- School of Education
- School of Law
- School of Medicine
- School of Nursing
- School of Pharmacy

For specific membership requirements, contact the academic department listed or the Office of Student Involvement.

**Leadership Programs**
The Office of Student Involvement is dedicated to assisting students discover and develop their ability to lead themselves, their organizations, the University, and their future communities.

OSI provides opportunities for students to make meaningful contributions to their community while building their academic and civic skills. Our support and encouragement of service-learning projects is guided by four principles:
• Meet Community Needs: Service-learning projects put the talents and energies of UMKC's students to work solving real issues in their communities; taken together, these programs make a significant national contribution.

• Improve Participant's Lives: Students' lives are enriched through service-learning as they become engaged in their own educational process, see the work they do benefit those around them, and become actively contributing citizens and community members. The Institute for Leadership & Service is dedicated to ensuring that our programs improve the lives of every participant, building academic, civic, and character excellence.

• Strengthen Communities: Service-learning projects bring together students, teachers, parents, and organizations to improve their community. By working together towards common goals, participants build trust and strengthen community ties.

• Build Partnerships: The Institute for Leadership & Service is committed to stimulating strong, sustainable partnerships among local schools, colleges, and organizations in order to improve communities' abilities to meet their ongoing needs.

For more leadership and service opportunities, visit http://www.umkc.edu/getinvolved or call 816.235.1407.

**LGBT Programs and Services**

Student Union, Room 325
(816)235-6556
lgbtqia@umkc.edu
http://www.umkc.edu/lgbtqia

The University of Missouri—Kansas City welcomes all students, faculty, staff, administrators, and community members that identify as members of the LGBTQIA (Lesbian, Gay, Bisexual, Transgender, Queer, Intersex, and Ally) community.

Programs occur throughout the academic year to help further personal growth and academic success of LGBTQIA students while educating and raising awareness among non-LGBTQIA campus constituents.

The Safe Space Training Program provides resources and information on creating safe and inclusive environments for people who identify. In collaboration with the Office of Residential Life, the Social Justice Coordinator is a para-professional student who lives in the residence halls and provides educational programs, social activities, and helps to support our LGBTQIA students.

LGBTQIA Programs and Services include:

• Lounge space for relaxation between classes, a place for lively discussion, a round of board games, or just a safe and inviting place to hang out.
• Computers available for student use and a wireless network that ensures your laptop is always connected.
- A large selection of books and magazines available to read or check out.
- A wide selection of educational and social events offered every semester.
- Extensive campus and community resources and information.
- A professional, confidential support network to assist with the coming out process or difficulties experienced by identifying as an LGBTQIA individual.

**Social Fraternities and Sororities**
UMKC’s fraternities and sororities make an important contribution to life on campus by providing leadership opportunities for students and service to the community. Sororities and fraternities play a vibrant role in campus life. Students who choose to join a social fraternity or sorority organization will have the opportunity to be part of a well-rounded, co-curricular experience. Recruitment activities typically occur in the fall, but also occur in the spring depending upon the chapter.

Sororities and fraternities at UMKC have been a large part of campus life since 1952. Our organizations constantly work together to promote the highest ideals and standards. Each fraternity and sorority is unique in its own way, but all offer the opportunity to experience leadership, develop high academic standards, social activities, and community service and philanthropic projects.

Currently, UMKC has 16 social fraternities and sororities and three governing councils.

**Interfraternity Council Chapters:**
- Beta Theta Pi
- Lambda Chi Alpha
- Sigma Alpha Epsilon
- Sigma Phi Epsilon
- Lambda Theta Phi

**Panhellenic Council / Local Chapters:**
- Alpha Delta Pi
- Alpha Sigma Alpha
- Chi Omega
- Delta Rho
- Delta Zeta

**NPHC Chapters:**
- Alpha Phi Alpha Fraternity, Inc.
- Phi Beta Sigma Fraternity, Inc.
- Delta Sigma Theta Sorority, Inc.
- Kappa Alpha Psi Fraternity, Inc.
- Sigma Gamma Rho Sorority, Inc.
- Zeta Phi Beta Sorority, Inc.
Student Government Association (SGA)
Student Union, Room 303N
816.235.1426
https://roogroups.collegiatelink.net/organization/umkcsga

The Student Government Association (SGA) is dedicated to providing representation of all UMKC students and serve as a liaison between the student body and the University of Missouri—Kansas City administration, faculty, and staff. The goal of SGA is to act upon the will of the majority while protecting the interests of the minority.

Each academic unit provides representation through a governing council that also serves the needs of students in those academic areas. Council elections are held annually.

For more details or to learn more about becoming an executive member or senator, please contact the current SGA executives at the information provided above.

University News
(816) 235-1393
http://www.unews.com

The University News student newspaper is published weekly for the UMKC student community. Students interested in becoming involved with the campus newspaper should call (816) 235-1393.
The mission of the Student Success Center is to provide high-quality, integrated, and responsive services that promote students’ academic and personal success in support of our retention and graduation goals. The space will provide for a more collaborative and effective delivery of academic advising, tutoring, career counseling, transfer support, and other services to meet the diverse needs of our students now and in the future. The Student Success Center is a key factor in achieving the University’s Strategic Plan Goal 1: place student success in the center.

Offices and services located in the Student Success Center include:
- UMKC Central
- UMKC Welcome Center
- University College
- Academic Support and Mentoring
- Writing Studio
- Career Services
- MindBody Connection
- International Student Affairs
- International Academic Programs
- School of Medicine Advising for Years 1 and 2
- Cafeteria and UMKC Café
- Barbershop
- Computer kiosks

The UMKC Student Union, opened in August of 2010, provides a welcoming and sustainable environment that values the diversity of all UMKC students. The 109,742 square foot, LEED certified student facility serves as the campus living room and the central hub for student programming and engagement. Conveniently located at the corner of 51st Street and Cherry Street, the facility was designed “by UMKC Students, for UMKC Students.”
The Student Union features student event and activity areas, including a 6400 square foot multipurpose room, 329 seat movie theater, coffeehouse performance stage, additional large, medium, and small meeting rooms, and student lounge spaces. The facility also hosts an IS Computer Lounge and electronic workroom, the Office of Student Involvement, the Office of Multicultural Student Affairs, LGBTQIA Rainbow Lounge, the UMKC Bookstore, the one-card office, the Student Government Association Chamber and offices, and the Student Organization spaces. In addition, the Union offers a dynamic retail dining experience with Jazzman's Café and Bakery, Chick-Fil-A Express, Baja Fresh Express, and SubConnection as part of the Union Marketplace.

With WI-FI coverage throughout, the Student Union becomes the place to be for relaxation and co-curricular activity. Billiards and gaming, including both XBOX 360 and Wii stations, are available in the Jazzman’s Café and Bakery coffee house. Daily locker use and locker rentals are available, including powerstations to charge laptops and other electronics. RedBox automated DVD rental is available to students 24 hours a day, 7 days a week.

Natural daylight, reclaimed wood, a recycling and composting program, storm water management design, and low-emitting materials on the interior are all a part of the Student Union’s sustainable design. The Garden Roof Terrace, located on the fourth level, offers breathtaking views of the city that UMKC calls home.

University Bookstores

The UMKC Bookstores are wholly owned and operated auxiliaries of the University of Missouri. We operate the UMKC Bookstores to ensure that our students and faculty receive the best possible course materials, service and support. 100% of the revenue derived from the UMKC Bookstore operations are utilized to provide educational, social and recreational opportunities for UMKC students.

Bookstores are located at the Student Union and the Hospital Hill Campus, where students can find a wide array of educational materials, including textbooks, office supplies, reference materials, and UMKC items. Other services include: textbook reservations, textbook buy-backs, graduation fairs, RooTech technology packages, and convenient payment options. More information on the UMKC Bookstores can be found in the UMKC Catalog Appendix.
Swinney Recreation Center

Swinney Recreation Center
5030 Holmes Street
(816) 235-1556: Membership
(816) 235-2712: Campus Recreation
Fax: (816) 235-5470
src@umkc.edu
http://www.umkc.edu/src

Swinney Annex at Hospital Hill
901 East 24th Terrace
(816) 235-5147

Director: Marsha Pirtle

The mission of the Swinney Recreation Center is to encourage personal growth by providing diverse recreational opportunities through quality facilities and services in an environment that promotes respect, lifelong learning, leisure-time activities, and sportsmanship.

Swinney Recreation Center includes the following:

- Stanley E. Durwood Soccer Stadium and Recreation Field
- 1/4-mile outdoor track
- 1/8-mile indoor track
- 25-meter indoor/outdoor pool
- Handball, racquetball and squash courts
- Fitness training center
- Wellness center
- Five multipurpose courts

Swinney offers classes and activities, including aerobics, spinning, yoga, Kinesis, massage therapy, swimming lessons (group or private), SCUBA, and more. Activities and equipment at the Annex include: boxing equipment, cardio equipment, table tennis, Wii, and light weight equipment.

In conjunction with the Swinney Recreation Center, the UMKC Campus Recreation/Intramural Department offers a variety of individual and team sports and programs. Student Intramural Leagues consist of Flag Football, Volleyball, Basketball, Kickball, Softball, and Ultimate Frisbee. Individual tournaments include Table Tennis, Golf Chipping, Three Point Shot, and many others.

All students who have paid the multipurpose fee are eligible to use the center. Student membership in the center runs from the first day of class of the current semester to the first day of class of the following semester. Memberships are also available for other university affiliates and household members.
UMKC Central

UMKC Central
Student Success Center, Level 2
UMKC Central Phone: 816.235.6000
UMKC Central Fax: 816.235.5076
umkccentral@umkc.edu
http://www.umkc.edu/central

UMKC Central Customer Service Manager: Bill Smith

The keystone for the Student Success Center is UMKC Central, one convenient location for students to take care of core business transactions in four key areas: Admissions, Cashiers, Financial Aid, and Registration and Records. Our staff members are cross-trained in a variety of functions to help students get answers, information, and meet their academic and financial objectives. Student inquiries are generated electronically, making it easier for our staff members to follow through and ensure students’ issues are resolved.

Women's Center

Women's Center
Haag Hall, room 105
5120 Rockhill Road
(816) 235-1638
Fax: (816) 235-5522
womens-center@umkc.edu
http://www.umkc.edu/womenc
http://www.umkc.edu/endviolence

Director: Brenda L. Bethman, Ph.D.

The mission of the Women’s Center at the University of Missouri-Kansas City is to advocate, educate, and provide support services for the advancement of women's equity at the University and within the community at large.

In support of this mission, the Women’s Center:

- Facilitates student development through co-curricular experiences that affirm students’ identities and foster leadership opportunities;
- Assists the University in achieving its retention goals by offering programming and services that promote student success;
- Recognizes, celebrates, and promotes awareness of the multicultural realities of women’s lives, particularly across race, sexual orientation, gender expression and identity, class, age, and abilities;
- Develops women leaders by providing mentoring opportunities and leadership development programs;
- Develops and sponsors programming that enhances the skills of women and assists in their development as students, scholars, and professionals;
• Fosters awareness of the effects of gender roles on women and men;
• Builds alliances and promotes collaboration among University departments and community organizations to utilize existing resources to effectively serve a diverse community of women;
• Promotes the effective and constructive feminist activism of UMKC students, staff, faculty and community members;
• Serves as a resource for the campus and Greater Kansas City communities on issues related to women’s lives.

Violence Prevention and Response

The mission of the Violence Prevention and Response Project at the University of Missouri-Kansas City is to strengthen the University and community response to gender-based and sexual violence through victim support services, advocacy, training, education, and outreach to the campus and community. The goals of the Violence Prevention and Response Project are:

• To unify campus resources through the coordination of existing services which address the issues of sexual violence
• To provide a safe place, referrals and information to those affected by sexual violence
• To assess campus needs for information and activities addressing sexual violence
• To participate in the creation and coordination of educational prevention programs about sexual violence
Student Affairs Offices Located in Academic Units

- College of Arts and Sciences

Henry W. Bloch School of Management
School of Biological Sciences
School of Computing and Engineering
School of Dentistry Office of Student Programs
School of Education
School of Graduate Studies
School of Law
School of Medicine
Conservatory of Music and Dance
School of Nursing
School of Pharmacy

College of Arts and Sciences
Office of Associate Dean for Undergraduate Programs
Scofield Hall, Room 302
711 E. 51 Street
(816) 235-2534
http://cas.umkc.edu

Associate Dean: Kati Toivanen

The associate dean coordinates programs and support to meet curricular and co-curricular needs of undergraduate students.

Staff in the Arts and Sciences Academic Advising Office (9 Scofield Hall) and Program for Adult College Education (PACE, 104 Scofield Hall) provide academic advising to prospective and current students and referrals to faculty advisers, evaluate transfer work and transcripts, monitor degree progress, process class lists, grade rolls, petitions and special requests, conduct graduation degree checks, assist with freshman and transfer orientations, serve as liaisons to other UMKC and community college advising offices and represent the College at other special programs and recruiting events.

Through the dean's office, coordination and support are also provided for numerous areas related to academic programs, including:

- Curriculum and program development.
- Academic standards, grading and appeals.
- Articulation efforts.
- Assessment measures.
- Catalog production.
- Commencement exercises.
- Scholarships.
- First Year Experience program.
- Enrollment management.
- Various recruitment and retention activities.
• High School College Partnerships.

In these efforts, the associate dean and staff work with the College of Arts and Sciences faculty and staff, and also coordinate with other University of Missouri academic programs, community colleges and other student affairs offices, including the Office of Admissions, Registration and Records, Financial Aid and Scholarships, Center for Academic Development, Student Involvement, etc.

**Henry W. Bloch School of Management**
Office of Student Services
Bloch School, Room 115
5110 Cherry Street
(816) 235-2215
bloch@umkc.edu
http://www.bloch.umkc.edu

Assistant Dean for Student Services: Kami Thomas
Staff in the Bloch School Student Services office provide academic support to meet the needs of undergraduate and graduate students. Assistance is provided to prospective, admitted and currently enrolled students in the bachelor's of business administration, master's of business administration, master's of public administration, bachelor's of science in accounting, and master's of science in accounting.

Staff provide academic advising and referral to University resources and support services, determine admissibility to various degree programs and assess preparedness for academic work in the Bloch School.

Other services include scholarship administration, graduation degree checks and notification of insufficient academic progress. Student Services staff work with faculty and other staff to coordinate academic policies and procedures, class schedules, room assignments and enrollment information.

**School of Biological Sciences**
Undergraduate Programs Office
Biological Sciences Building, Room 016
5007 Rockhill Road
(816) 235-2580
sbs-undergrad@umkc.edu
http://sbs.umkc.edu

Director of Curriculum: Lynda S. Plamann

The Director of Curriculum coordinates all student matters for undergraduate students pursuing degrees in the School of Biological Sciences. Advisers in the office provide pre-admissions information, registration advising, information about research opportunities, honors programs, career choices and pursuit of advanced degrees, as well as processing degree checks, add-drops and other procedural matters.

The School of Biological Sciences provides academic advising for all undergraduate students each semester prior to registration. Information and appointments can be obtained by calling (816) 235-2580.
Graduate students in the school receive advising and administrative support from the School of Biological Sciences Graduate Programs Office. Students may obtain information from that office by calling (816) 235-2352.

**School of Computing and Engineering**
Office of Student Affairs 534 Flarsheim Hall (816) 235-2360 sce@umkc.edu
http://www.sce.umkc.edu/

The Office of Student Affairs in the School of Computing and Engineering is a valuable resource for both prospective and current SCE students. Information about tutoring, career services, student organizations and teams and scholarships can be obtained by contacting our office.

Both the CME and CSEE departments in the School of Computing and Engineering provide advising and counseling to prospective students who are planning to major in SCE degree programs. In addition both offices enroll all visiting and community students wanting to take courses offered within SCE. Following admission and acceptance into SCE programs, students are assigned a faculty advisor and all SCE students are required to be advised each semester and should contact the department offices for appointments:

Civil and Mechanical Engineering 352 Flarsheim Hall (816) 235-5550 cme@umkc.edu
http://www.sce.umkc.edu/cme

Computer Science Electrical Engineering 546 Flarsheim Hall (816) 235-5661 csee@umkc.edu
http://www.csee.umkc.edu/

Scholarship information for the School of Computing & Engineering can be obtained by visiting http://www.sce.umkc.edu and clicking "SCE Scholarships."

**School of Dentistry**
Office of Student Programs
Dental School, Room 420
650 E. 25th Street
(816) 235-2080
dentistry@umkc.edu
http://dentistry.umkc.edu

Assistant Dean for Student Programs: John W. Killip.

The Office of Student Programs (OSP) at the School of Dentistry functions within three primary areas of focus and responsibility: admissions/recruitment, student records and student support services.
Representative services/activities provided by the OSP include identification and counseling of potential applicants, processing applications to the school, registration and maintenance of student records, initial assistance in financial aid and counseling and housing.

The majority of students' needs and services are provided directly by the office. For others, office personnel furnish initial assistance, with subsequent referral to other student affairs offices (e.g., UMKC's Counseling and Testing Center, Career Services, Financial Aid and Scholarships Office, etc.), as necessary. In this regard, the OSP serves as a liaison with these University departments.

The OSP also is responsible for a health careers opportunity program. Through the several components of this program, minority and educationally disadvantaged students interested in dentistry are identified, and their opportunity for enrollment and retention in dental school to the point of graduation is enhanced.

**School of Education**
Office of Student Services
Education Building, Room 129
615 E. 52nd Street
(816) 235-2234
education@umkc.edu
http://education.umkc.edu

**Assistant Dean of Student Services: Renique Kersh**

The School of Education Student Services office mission is to facilitate student success by providing quality services and support in the spirit of building a community of learners. The office is a referral and resource for all students in the School of Education. Primary responsibilities are to provide quality advising for undergraduates and to coordinate the processing of certification. The staff also assists with recruitment events, contact with prospective students, freshmen and transfer orientation, admissions to teacher education, School of Education scholarship materials, commencement and other student-centered activities.

**Advising**

Academic advisers are available to meet with undergraduate education and pre-education majors and those seeking teacher certification. In addition, all students are assigned a faculty adviser who is available for assistance in program and career planning. Appointments are required.

**Certification**

Certification applications and testing information for Missouri and Kansas is kept on file in the Student Services office. The staff processes all applications for education-related certification.
Manager of Student Services: Constance Smith Mahone The School of Graduate Studies is the academic home for students enrolled in the Interdisciplinary Ph.D. program, monitoring student progress and providing a variety of support services for the students enrolled in the program. The school coordinates training for Graduate Teaching Assistants and, in conjunction with the Graduate Student Fellowship and Awards Committee, administers a number of campus graduate competitions. The School of Graduate Studies also works with departments in the Division of Student Affairs to provide programs of special interest to graduate students. Staff members advise students seeking information about graduate study and direct inquiries to the appropriate academic unit's principal graduate adviser. The Manager of Student Services also serves in an ombuds role for persons applying to graduate study.

School of Law
Office of Student Services
School of Law, Room 1-200
500 E. 52nd Street
(816) 235-1644
http://www.umkc.edu/law

Dean of Law School Admissions: Debbie Brooks Director of Student Services: Adela Fleming Director of Law School Career Services: Jenny Jordan Redix Law School Registrar: Tina Melville

The School of Law is committed to its students’ success. This begins with the School’s Admissions Office. Along with the Faculty Admissions committee, it endeavors to recruit and admit students who are likely to succeed, are a good “fit” for UMKC and who add to the diversity of the School. Our Registrar is the primary contact for current students, providing assistance with student records, course selection, registration, grades and other matters related to the academic process. She also serves as the students’ first contact with the Bar regarding student practice rules and admission to the Bar. The Associate Dean for Students oversees the Registrar and interacts with students regarding academic requirements, application of academic rules and policies, the course schedule and part time and full time status. Every student has a faculty advisor who assists with career development and course planning, and the Associate Dean reviews each students proposed schedule to insure fairness in the course selection process and each students’ progress toward the degree.

The School’s Director of Student Services works closely with students on matters relating to non-academic counseling, assistance with problems that arise during the year, exam rescheduling, disability accommodation (as liaison to the campus office), and general non-academic support. The Director also works with the School’s many student groups and coordinates programs regarding bar admissions, character and fitness screening and the bar exam. She is very accessible to students and is committed to meeting their legitimate needs. Academic support needs of students are addressed by the Director of the Academic Strategies Program, a member of the faculty who oversees the program and provides individual assistance to students in developing effective law school study skills. The School’s Laptop Clinic is available to students to assist with their computing needs.
The Career Services Office, staffed by a Director, a Coordinator and an Administrator, assists students in planning their careers and executing their job searches for part-time, summer and permanent employment. The Office presents numerous programs that introduce students to the many areas of practice and non-practice use of the J.D. degree. It runs the on-campus interviewing program and maintains lists of job openings. The Office also coordinates the School’s Pro Bono/Public Service Honors Program and its new Solo and Small Firm Incubator.

School of Law students also interface with Campus offices in many areas, including Financial Aid, Cashier, Counseling and Testing, Disabled Student Services and Registrar.

School of Medicine
Office of Student Affairs
School of Medicine, Room M4205
2411 Holmes Street, Dean's Office
(816) 235-1900
medicine@umkc.edu
http://research.med.umkc.edu

The School of Medicine's Office of Student Affairs coordinates a variety of support services that are available to all medical students and are in line with the competencies expected of a UMKC School of Medicine graduate. These services include but are not limited to academic and career counseling, financial planning, personal support, enrichment activities, student events and student organizations and activities. The School of Medicine has at least 25 student organizations and a number of traditions and activities.

Academic Advising

The School of Medicine has a number of personal and academic support systems in place to assist students at all levels of the program. There are two education team coordinators with offices on the Volker campus who help the first- and second-year students in curriculum planning and who are available to counsel them on problems.

Each group of 10-13 students has a physician-scholar (or docent) who instructs the students in medical coursework during the first two years and who also serves as a role model and personal counselor. Additionally 10-12 Year 2 students are selected as peer mentors to the Year 1 class. These students are selected because of their past academic performance and their success in integrating themselves into life at UMKC and the School of Medicine.

From year 3 through year 6, each student is a member of a 12-student team assigned to a docent who teaches and counsels throughout these years of the curriculum. Teams are assigned an education team coordinator to advise about course selection and personal problems in consultation with the docent. In their third and fourth years, students are partnered with older students who serve as senior partners. Additional campus resources are available to students in the areas of counseling and support including the UMKC Counseling and Testing Center. Staff regularly meet with students individually, in class meetings and in multiple orientation settings to discuss relevant and timely policies, processes and resources.
Career Advising

The School of Medicine’s career advising staff provide medicine specific guidance to students by meeting with students individually as they develop Curricula Vitae and Personal Statements; advise on career choice, residency selection and interviewing process and maintaining a database of physician specialists in the Kansas City area and elsewhere who are willing to mentor students in their specialty exploration and choice. They provide presentations on how to assess compatibility and ‘fit’ with different career paths; explore specialty options and make an informed choice; construct curricula vitae and personal statements; research residency programs and prepare to be a competitive applicants; as well as interview skillfully and follow up properly.

Academic Support Services

The School of Medicine provides academic support to all its students. The curriculum provides challenging coursework, and students should explore all opportunities for alternative study methods. Students have the responsibility to become life-long learners and to meet their own and the school's learning goals. The following services are offered:

Support for Basic Science Courses

During the first years the students take several basic science courses and are given as much support as possible. A course called, Learning Basic Medical Sciences is designed to give all students in their first year at the Medical School a core of learning strategies to prevent academic difficulty and to improve higher-order cognitive skills. Course topics surround discussions of learning styles, efficient study techniques and current basic science coursework. Study groups are available in the core basic science courses of the school curriculum. The groups consist of three to five students and a group facilitator/tutor, meeting once or twice a week. Test performance has consistently been enhanced for students actively participating in these groups. Therefore, all medical students are encouraged to participate fully. Study-group leaders are selected on the basis of their own performance in the course, their abilities to communicate course content and the recommendations of course professors.

Lecturers in the School of Medicine provide several support sessions and open office-hours during the week as well as individual appointments for students to attain their learning goals. For many classes the school provides successful senior medical students as tutors. Tutors set meeting times and agenda according to students' needs. Students are also encouraged to take advantage of Supplemental Instruction for courses in which it is offered.

Additional Assistance

Individual assistance is available to medical students through a variety of means. Students may receive individual analysis of their study techniques, including reading comprehension; time management; short- and long-term retention techniques; and test-taking abilities. Analysis of a student's basic science knowledge is available through several computer-assisted programs. If required, individual tutoring may be available to supplement the assistance offered through study-group programs. Counseling support also is available to students with personal issues that may hinder their academic performance.

United States Medical Licensing Exam Step 1 Preparation Students preparing for Step 1 of the USMLE are offered a variety of programs to supplement their individual review of the basic sciences. These programs consist of discussion groups, interactive video review sessions, individual test-taking analysis and a Step 1 mock exam. Some of the programs are free to all students and other involve enrollment in
fee-based programming. In addition to academic preparation support, resources are available to help students manage the stress related to their preparation for the exam.

Financial Support

The School of Medicine has a full-time Counselor of Student Finances to assist students and parents in understanding the financing of medical school. This individual provides ongoing financial literacy programming to the student body and can assist students one-on-one with the budget planning process.

Wellness Program

The School of Medicine has a full-time Wellness Program Coordinator who coaches students and serves as a point of referral. In addition to Wellness Planning and Coaching, the UMKC School of Medicine Wellness Program offers a variety of workshops throughout the year.

Conservatory of Music and Dance

Advising and Admissions Offices
Grant Hall, Room 138
5228 Charlotte Street
(816) 235-2900
conservatory@umkc.edu
http://conservatory.umkc.edu

The Conservatory’s Advising and Admissions offices provide registration assistance, as well as advising, admissions and scholarship information to all prospective, admitted and currently enrolled graduate and undergraduate students. Advising staff assist undergraduate and graduate students with curricular and co-curricular concerns and act as liaisons with other University offices. Information needed to complete the admission or enrollment processes can be obtained in this office.

School of Nursing

Office of Student Services
Health Sciences Building
Hospital Hill Campus
2464 Charlotte Street
(816) 235-1700
nurses@umkc.edu
http://nursing.umkc.edu

Director of Student Services: Judy Jellison

The Office of Student Services at the School of Nursing provides numerous services to meet the needs of current students and individuals desiring admission to the School of Nursing. This office coordinates all activities related to admission, advisement, enrollment, registration, graduation, and other student support services. The office assists students seeking financial aid and scholarship monies.

The Office of Student Services maintains student records for graduates and current students and provides assistance to nursing student organizations. In addition, Student Services personnel provide information to prospective students and the community at large regarding UMKC and the School of Nursing.
School of Pharmacy
Office of Student Services
Health Sciences Building
Hospital Hill Campus
2464 Charlotte Street
(816) 235-1613
pharmacy@umkc.edu
http://pharmacy.umkc.edu

Associate Dean of Student Affairs: Wayne M. Brown
Director of Student Affairs: Shelly M. Janasz

The Student Services Office at the School of Pharmacy provides those essential services that develop, maintain and support currently enrolled undergraduate and professional students, and those pre-pharmacy students desiring admission to the UMKC School of Pharmacy. The School of Pharmacy offers the Doctor of Pharmacy degree and participates with the School of Graduate Studies offering of the interdisciplinary Ph.D. emphasis areas in pharmaceutical sciences and pharmacology and toxicology.

Student support services include, but are not limited to, academic advising, short-term counseling referral, assistance in identifying scholarships, financial aid, and part-time employment, finding tutorial assistance, records retention, registration and progression, assistance to student organizations with professional projects, certification of graduation completion and enrollment verifications. The Student Services office works closely with the director of alumni affairs within the School in developing programs that link current students and alumni. Staff and administrators in the office also serve on a number of School and University committees and task forces, and are responsible for drafting reports to pharmacy agencies such as the American Association of Colleges of Pharmacy and the Accreditation Council for Pharmacy Education. In addition, Office staff travel to and participate in recruiting fairs and functions held regionally and state wide, provide summer outreach programs for underrepresented students and host campus visits throughout the year. Staff in the Pharmacy Students Services Office act as advisors for the UMKC Pre-Pharmacy Society and individual Pharm.D. Class Officers.

The Student Services office at the School of Pharmacy coordinates activities with other departments in the Division of Student Affairs to provide programs of special interest to pharmacy students. The office also works as a liaison to other academic units and student affairs’ departments on campus, as well as state licensing boards. It assists the School of Pharmacy faculty in administering curricular functions, class scheduling, admissions and retention policies and faculty advising.

Several annual events are sponsored through the office including: the admissions interview process, doctor of pharmacy orientation, professional dedication ceremony, achievers of excellence celebration, pharmacy career day, graduation awards banquet and commencement, grand rounds' seminars and senior exit day.
Libraries

University Libraries
Administrative Offices, University Libraries
Miller Nichols Library, Room 212
800 E. 51st Street
Administration (816) 235-1531
Service Desk (816) 235-1526
Fax: (816) 333-5584
http://library.umkc.edu/

Dental Library
Dental School
650 E. 25th Street
(816) 235-2030
http://library.umkc.edu/dentalhome

Health Sciences Library
School of Medicine
2411 Holmes Street
(816) 235-1880
http://library.umkc.edu/hslhome

Leon E. Bloch Law Library
School of Law
500 E. 52nd Street
(816) 235-1650
http://www.umkc.edu/law/library

Mailing Address:
University of Missouri-Kansas City
University Libraries
5100 Rockhill Road
Kansas City, MO 64110-2499

University Libraries Faculty and Staff Directory
Dean of Libraries: Bonnie Postlethwaite
Assistant Director for Administrative Services: Jennifer L. Eigsti
Advancement Director: Mark Mattison
Director of Public Services, (Miller Nichols Library): Cindy Thompson
Head of Interlibrary Loan: Cindy Thompson
Head of Circulation Services, (Miller Nichols Library): Mary E. Anderson
Head of Music/Media Library: Mary E. Anderson
Head of Teaching and Learning Services, (Miller Nichols Library): Diane Hunter
Director of Scholarly Communications: Brenda L. Dingley
Coordinator of the Virtual Library: Brent Husher
Director of Health Sciences Libraries: Peggy Mullaly-Quijas
Dental Librarian: Marie Thompson
Director of Special Collections: Stuart Hinds  
Director of Collections and Access Management: Buddy Pennington  
Head of Collections: Steve Alleman  

Leon E. Bloch Law Library Staff Directory  
Director, Leon E. Bloch Law Library: Paul D. Callister  
Associate Director/Director of Information Technologies, Leon E. Bloch Law Library: Michael J. Robak  

Description  
The University Libraries consist of the Miller Nichols Library, the Health Sciences Library and the Dental Library, and we partner with the Leon E. Bloch Law Library. Our mission states that the University Libraries is an essential partner in intellectual discovery, knowledge creation, and empowerment.  
The University Libraries provide research facilities, resources and services in support of academic programs. We partner with the campus Office of Services for Students with Disabilities (OSSD) and are committed to providing services and assistance to all members of the UMKC Community. Information about services for individuals with disabilities can be found on the Web site at http://library.umkc.edu/disability and by calling 816-235-1508 or the Miller Nichols Library Reference Desk at 816-235-1534. The Library accepts calls through the National Relay Service (711) and the Missouri Relay Service (800-735-2966).  
The Miller Nichols Library serves primarily the College of Arts and Sciences, the Conservatory of Music and Dance, and the schools of management, education, pharmacy, biological sciences and computing and engineering. Specialized libraries are located in the schools of law, dentistry and medicine. UMKC faculty, students and staff have access to all collections and services, subject to the policies in effect at each library location.  

Other Collections:  
Marr Sound Archives (Miller Nichols Library)  
Music/Media (Miller Nichols Library)  
Dr. Kenneth J. LaBudde Special Collections (Miller Nichols Library)  
Western Historical Manuscript Collection (Newcomb Hall)  

Leon E. Bloch Law Library  
(816) 235-1650  
http://www.umkc.edu/law/library  
The Leon E. Bloch Law Library is a comfortable, efficient and user-friendly facility located in the School of Law at 52nd and Oak streets and open to both students and members of the public. All UMKC  

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students may check materials out with a current student ID.

The library contains holdings in all major areas of legal scholarship and practice, including international, comparative and government materials. Most of the collection is on open shelves, with ample research and study space provided by tables and study carrels, and dedicated work space provided for student editors of the UMKC Law Review and the Urban Lawyer.

The library has highly qualified reference librarians with many years of legal practice as well as library experience. Reference librarians are available during the regular semester as follows:

- Monday - Thursday: 9 a.m. - 7 p.m.
- Friday: 9 a.m. - 5 p.m.
- Sunday: 3 p.m. - 7 p.m.

However, please note that access to the library is restricted after 7:00 p.m. to law students and faculty. Exceptions may be made for other students needing to do research, on a case-by-case basis.

The physical collection is augmented by subscription databases, an international interlibrary loan system, and a state-wide lending consortium, including the university and law libraries of the University of Missouri - Columbia, Saint Louis University and Washington University, with 18 million items held within the state-wide system.

**Electronic Resource Center:**

Technology has reshaped legal research in ways that will forever alter how attorneys and judges approach their work. The information professionals of the Leon E. Bloch Law Library have embraced this transformation by providing wireless networking throughout the law building and the Jerry Haley Electronic Resource Center (JHERC). The JHERC includes 40 Pentium-processor equipped computers, an instructional lab, Internet access, and numerous subscription databases.

The lab also includes printers, a scanner and a dedicated workstation for the visually impaired. Librarians provide instruction in legal information technologies during the first-year legal research and writing course, at a special research "boot camp" during spring intersession, and in upper-level courses and extra-curricular activities as needed.

**Law Library and Resource Center Hours**

- Monday - Thursday: 7 a.m. - Midnight
- Friday: 7 a.m. - 7 p.m.
- Saturday: 9 a.m. - 5 p.m.
- Sunday: Noon - Midnight

However, please note that access to the library is restricted after 7:00 p.m. to law students and faculty. Exceptions may be made for other students needing to do research, on a case-by-case basis. Summer, spring break and intersession hours are available at [http://www1.law.umkc.edu/Library/HOURS.HTM](http://www1.law.umkc.edu/Library/HOURS.HTM).
University College
Located in the UMKC Student Success Center

Mailing Address
University of Missouri-Kansas City
5100 Rockhill Road
Kansas City, MO 64110-2499

Associate Vice Provost-University College:
Kim McNeley, Ph.D.

General Information

What is a University College?
The University College is an administrative structure that coordinates the overall academic experience of incoming undeclared/exploratory students and continuing students in transition between majors. University College is a portal to the ultimate academic unit in which the student will be granted a degree.

Exploratory or Transitioning Student
Exploratory students are students that are simply not ready to select a major, whether at the time that they enter UMKC or after realizing their initial decisions regarding a major are not what they want. Nationally, a large percentage of student entering colleges and universities are unsure of their academic plans. Estimates indicate that as high as 70% of students change their major at least one time during their academic careers.

Mission
Our mission is to offer every exploratory or transitioning student the opportunity for success through the engagement with faculty and staff, the development of educational plans, the clarification of career and life goals, and the appreciation of the value of the core skills developed through UMKC’s general education.

The University College will contribute to the University’s mission of providing a “vibrant learning and campus life experience” through the development of a focused community of faculty, students, and staff with a shared responsibility for each student’s achievement of advising goals and progress toward degree completion.

Explore, Network, and Decide
Exploratory students are expected to take an active role in their education through systematic exploration, networking, and active decision making. UC student success teams will provide a supportive environment for this approach. The UC student success teams will be made up of: the Associate Vice
Provost for University College, University College Retention Coordinators/Advisors, seminar series faculty, librarians, peer mentors, and Student Success Center staff.

Cross-Campus Collaboration

The University College mission is impossible without a multidisciplinary participation and collaboration among all undergraduate academic units. Students in the University College explore academic options across the University. Faculty selected to mentor students through the UC seminar series are purposely drawn from a breadth of disciplines. Close collaboration between UC and all academic units is critical to the successful exploration and ultimate transition of students to their most appropriate academic homes in the College or one of UMKC’s schools.

Academic Advising

University College Retention Coordinators will partner with each student in the development and completion of educational goals. Retention Coordinators will provide cross-college academic advising and connections with potential academic units, and facilitate ongoing support and evaluation of each student’s progress.

University College Requirements and Regulations

Registration Approvals

All University College students are required to secure an adviser's approval to register for classes.

Required Enrollment

All University College students will enroll in the appropriate level UNIV seminar course during both Fall and Spring semesters. Early and continuous enrollment in English and mathematics courses are required depending upon the student’s selected exploratory track.

Repeated Courses

University College students receiving D level credit in English and mathematics general education courses may be required to repeat this course in the subsequent term.

Academic Standing

Undergraduate degree-seeking students' academic status is assessed at the end of every term, whether the student is full-time or part-time for that term. A summer session is considered the same as a semester for the purpose of the following regulations:

1. In general, students will be placed on academic probation whenever their official UM grade-point average falls below 2.0 (C average). First time college freshman admitted to
UMKC on the basis of high school records, who have grade-point averages between 1.50 and 1.99 at the end of the first semester of either full- or part-time study will be placed on academic warning. Students on academic warning must achieve an overall 2.0 average by the end of their second semester or be placed on regular probation. After that, they would be subject to the regular probation requirements.

b. Students on academic probation will be restored to good standing whenever the UM grade-point average reaches 2.0.

c. Students on academic probation must maintain a 2.0 grade-point average during each subsequent semester or summer session while they are on probation. Otherwise they are ineligible to re-enroll without University College approval.

d. Students on academic probation must remove themselves from probation within three successive semesters (including the semester in which they originally were placed on probation). Otherwise they are ineligible to re-enroll without University College approval.

e. Students are responsible for knowing their academic status by referring to Pathway and their permanent transcript.

Declaration of Major

When exploratory students are ready to declare a major (before the end of the sophomore year), this decision will be informed by courses completed, an understanding of themselves, a greater understanding of the specific major and their intended career goals. Students are required to complete processes of Change of School and Declaration of Major with the appropriate academic unit and the University Registrar.

Students unable to make a decision regarding their major at the end of the sophomore year must provide a plan for the upcoming academic year and petition University College for permission to continue.

Undergraduate Courses

University College Seminars
Career and Major Exploration Seminars
Arts and Sciences, College of

College of Arts and Sciences
Administrative Offices
Dean's Office, Scofield Hall
711 E. 51st Street
(816) 235-1136
Fax: (816) 235-5191
college@umkc.edu
http://cas.umkc.edu/
Mailing Address University of Missouri-Kansas City
College of Arts and Sciences
5100 Rockhill Road
Kansas City, MO 64110-2499

Dean: Wayne Vaught
Associate Deans:
Diane Filion
Thomas Sandreczki
Kati Toivanen

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  o Art and Art History
  o Black Studies
  o Chemistry
  o Classical and Ancient Studies
  o Communication Studies
  o Criminal Justice and Criminology
  o Economics
  o English
  o Environmental Studies
  o Family Studies
  o Foreign Languages
  o Geosciences
  o Gerontology
  o Healing and Humanities
  o History
  o Honors Program
  o Judaic Studies
  o Liberal Arts
  o Liberal Studies
  o Mathematics
  o Military Science
  o Program for Adult College Education (PACE)
  o Philosophy
  o Physics and Astronomy
  o Political Science
  o Pre-Law
  o Psychology
  o Religious Studies
College of Arts & Sciences Major and Minor Requirements
Students pursuing the bachelor of arts and bachelor of science degrees must declare a major. The College strongly encourages students to consult faculty advisers and the UMKC Career Services Office counselors for assistance in choosing suitable academic and career goals. To select a major, students must file a "Declaration of Major" form in the Arts and Sciences Advising Office, 9 Scofield Hall. For specific requirements for majors, see the earlier College section on Degree Program (Major) and the appropriate academic department section in the pages to follow.

The undergraduate degree-seeking student in the College must fulfill the requirements for a degree program (major) as specified in the appropriate part of this catalog. The minimum is 26 semester hours. A minimum of 12 semester hours in the degree program (major) must be earned in the major department at UMKC. A minimum of a C average in the major is required.
The College encourages students to seek advising early in their academic careers regarding choice of a major. Students must file a formal "Declaration of Major" form in the Arts and Sciences Advising Office.

A multiple (double or triple) major may be earned when a student completes two or more full majors, generally within the 120 hours required for a single degree. The specific major requirements of each major must be fulfilled. The diploma will indicate all majors. If the two or more degree programs are administered by different academic units, the major requirements of each academic program must be fulfilled. The general education requirements must be fulfilled as specified by the department or academic unit responsible for the primary major only. The double or multiple major is only available in B.A./B.A. or B.S./B.S. combinations.

A double degree may be earned when a student completes a minimum of 150 hours, completing the general education and major requirements for each of two majors. Students who earn a double degree will receive two diplomas simultaneously. If the two degree programs are administered by different academic units, the general education and major requirements of both academic units must be completed. In coordination with several of the professional schools, the College of Arts and Sciences students may earn combined degrees. Combined degree programs are offered in dentistry, law and medicine. In the combined degree program, 30 credit hours in the professional schools may count toward the fulfillment of the baccalaureate degree. All degree requirements of the College must be fulfilled. The professional hours are generally considered upper-level elective (blanket) credit. In this manner, the two degrees are earned concurrently and the student's program is accelerated considerably. Students are advised to check with the advising offices of the appropriate schools before making their plans.

Students wishing to earn a second bachelor's degree, whether or not the first was earned at UMKC or another college or university, must complete a minimum of 30 additional hours. Of those 30 additional hours, a minimum of 12 must be taken in the major department. The student must also fulfill any additional general education requirements and major requirements in effect when the student is admitted or readmitted to pursue the second bachelor's degree.
An academic minor may be taken in many departments in the College by students enrolled in a B.A., B.S., or the B.L.A. degree program. The academic minor is optional and must be declared no later than the beginning of the student's senior year.

A minimum of 18 hours is required in the minor area. At least nine of those hours must be upper-division courses. The courses and total number of hours are determined by the department or departments granting the minor. A minimum of nine hours for the minor must be earned at UMKC.

A student interested in a minor should consult a departmental adviser. Minors offered in the College include the following: anthropology; art history; studio art; black studies; chemistry; classical and ancient studies; communication studies; criminal justice and criminology; economics; English writing; English language and literature; environmental studies; family studies; film studies; French; geography; geology; German; gerontology; history; healing and the humanities; Judaic studies; mathematics; philosophy; physics; political science; sociology; Spanish; theater; and women's and gender studies.

Exceptions to academic regulations must be approved by the Academic Standards Committee of the College of Arts and Sciences. To seek exceptions, students must file a "Petition for Exception" form in the Arts and Sciences Advising Office, 9 Scofield Hall.

**CAS Statement of Purpose**

The primary academic missions of the College of Arts and Sciences are teaching, research and service. Through these functions, the College serves the community, the state and society at large. The research and scholarship of the College's faculty not only expand the body of knowledge generally, but also enrich and enhance its teaching and instructional programs.

Most departments of the College offer both undergraduate and graduate study. The College enables students to develop the creative, analytical and communication skills which sustain a lifelong educational process. In addition to serving its own students, the College provides instruction in the liberal arts and sciences for students in the UMKC professional schools. Through its continuing education division and certificate programs, the College also serves individuals and groups in the community.

The general degree requirements designated by the College give students a breadth of knowledge, enabling them to understand and appreciate the many facets of human experience, to make meaningful relationships between the various fields of knowledge, and to increase their understanding of themselves, their interests and special abilities. The general requirements and introductory courses allow for maximum freedom in selection of a major field of study and provide the basic knowledge for that particular field or for the choice of a bachelor of liberal arts degree with no major.

Work in the major field of study provides students with a comprehensive and systematic introduction to a field of scholarship and prepares them to function in the professional fields of their choice. Should a student choose to go beyond the baccalaureate degree, the major provides a solid basis for graduate study. The objective of the total academic program of the College is to engage students in study that will enable them to work competently in their chosen fields or pursue graduate work, while at the same time developing a breadth of knowledge in the arts and sciences. In that way, students can understand their specializations in the larger context of the intellectual and social life of the community.

Graduate-level studies provide students with advanced instruction and/or independent research in the major field of study. Students pursuing master's-level work in a major field or a Ph.D. in Clinical Psychology are directed to the relevant department or program listing in the Arts and Sciences section of this catalog and to the General Graduate Academic Regulations and Information section of this catalog. Those planning other Ph.D.-level studies are directed to UMKC's Interdisciplinary Ph.D. program listing in the School of Graduate Studies section of this catalog.
CAS The Superior Student
The College offers superior students various means to enhance or accelerate their academic programs.

Dual Credit High School/College Program (HSCP)
The College offers advanced students in many Kansas City area high schools the opportunity to earn UMKC credit prior to high school graduation through the High School/College Program. Qualified students may enroll in introductory college courses that meet general requirements for a bachelor's degree.

Credit by Examination
Students may gain credit by any or all of the four methods listed below:
- International Baccalaureate (IB).
- Advanced Placement (AP).
- College Level Examination Program (CLEP).
- Departmental Exam.
See the General Undergraduate Academic Regulations and Information section of this catalog for additional information.

Fellowships and Awards
The Center for International Academic Programs (CIAP) assists students who want to apply for major fellowships that support continued undergraduate study and graduate school. The CIAP Web site identifies an extensive list of these fellowships for both national and international study, including, but not limited to the Truman, Goldwater, Udall, Fulbright, Rhodes, Marshall, Jack Kent Cooke, NSEP Boren, and Rotary. These are highly competitive awards that demand careful planning and a commitment of time and effort. All fellowships require applicants to have a high GPA. In addition, typical eligibility criteria include a record of community service, evidence of undergraduate research or original work, strong faculty references, and a commitment to future academic or public service. A number of the fellowships require an on-campus review and nomination before a candidate can move forward to the national competition. Most of these fellowships provide substantial financial support as well as opportunities for travel and specialized seminars with fellow grantees. For additional information please call (816) 235-5759 or visit http://www.umkc.edu/international.

Honors Program
Details of the Honors Program can be found in the Honors Program section of the College's portion of this catalog.

Independent Study
The opportunity to undertake independent study is offered by many departments in the College to students who qualify. Generally, the student receives the individual attention of a professor in the chosen field of study and completes a project that may involve any topic considered appropriate by that professor to the academic needs of the student. Typical kinds of independent study include: special reading topics, creative work in the humanities, research projects, performances in the arts or fieldwork experiences.
**Undergraduate Research**  
Undergraduate research opportunities are available in many disciplines within the College. Interested students should speak with faculty members in their major department. When selecting a faculty mentor for undergraduate research, students should consider their own research or creative project ideas, courses they have taken, as well as faculty research interests.

**CAS Advising System**
Scofield Hall, Room 9  
711 E. 51st Street  
(816) 235-1148  
http://cas.umkc.edu/advising

**Our Vision:**
Guiding, supporting, and inspiring students to achieve academic excellence

**Our Mission:**
The mission of the UMKC College of Arts and Sciences Academic Advising Office is to guide students toward academic success in higher education.

Advisers within the College are directly responsible for advising current and prospective Arts and Sciences students on general education requirements and how to apply them to their degree program. Advisers assist students with selecting majors, monitoring academic progression, and fulfilling graduation requirements while educating them on campus resources, university policies and procedures, and options for graduate or professional schools. Advisers are role models who teach students how to navigate through the educational journey encouraging students to actively engage themselves in their education. The Academic Advising Office creates an atmosphere promoting autonomous life-long learning where students accept responsibility and ownership for their personal academic progression, degree completion, and goal achievement.

Advisers within the College are committed to serve as a bridge among students, faculty, and staff. The Academic Advising Office provides training and development for professional and faculty advisers to ensure they are effectively meeting the needs of students. Advisers support the College's commitment to educate students in the arts and sciences providing them with a breadth of knowledge valuable to the intellectual and social community. Advising allows for the promotion of understanding of these general education goals which play a key role in the development of students becoming productive contributors to society. Due to the unique relationship between advisers and students, advisers play an integral role in recruitment, retention, and student success for the College of Arts and Sciences and UMKC as a whole.

As students progress through their higher education journey at UMKC, the Academic Advising Office fosters and encourages students toward achieving academic success.

**Faculty and staff advisers:**

- Assist students in choosing majors and planning their academic programs.
- Inform students about the general education requirements of the College and relate them to their major requirements.
- Advise students on class selection and registration.
- Offer advice on educational and career goal setting.
- Assist students in locating support services on campus.
- Perform degree audits and graduation status checks.
- Connect students with faculty on campus.
- Review academic policies and procedures with students.
- Help students with other related issues and problems of an academic nature.

Academic advising responsibilities are distributed among faculty advisers and professional advisers in the College of Arts and Sciences in the following manner:

- Undergraduate and graduate faculty advisers in each department or program:
  - Advise students in their major field of study.
  - Advise students about departmental student organizations as well as internship or undergraduate research opportunities within the department.
  - Advise students concerning graduate study requirements.

- Professional and graduate-student advisers in the Arts and Sciences Academic Advising Office:
  - Advise students for general education and overall degree requirements.
  - Advise bachelor of liberal arts students, including students in the Program for Adult College Education (PACE).
  - Advise students who have not yet declared a major or are on probation.
  - Help all undergraduates with special requests and problems.
  - Evaluate transfer courses.
  - Conduct degree audits prior to graduation on all bachelor's degree-seeking students.
  - Communicate with individual students and with the Registration and Records Office to confirm that all degree requirements will be met in the graduating semester.

While academic advising is not required for all students, it is recommended that students seek academic advising each semester to avoid problems later. Certain undergraduate majors do require academic advising each semester. Students required to secure an adviser's approval and release before enrolling include:

- All freshmen.
- All sophomores with 45 or fewer credit hours.
- General studies and undeclared students with 60 or more credit hours.
- Probationary students.
- Students requesting overloads or credit/no credit option.
- Undergraduate majors in art, chemistry, physics and theatre.
- Graduate majors in chemistry, English, geosciences, sociology, and theatre.

When the next semester's course schedule is published on the UMKC Web site, students should contact their academic adviser. Students who promptly seek academic advising have a better chance of securing their first choice of courses and times. While the Arts and Sciences Advising Office sees students on an appointment as well as walk-in basis, most faculty advisers require an appointment.

**Additional Resources**

Freshmen and transfer students are encouraged to enroll in Arts & Sciences 100. This course focuses on
providing students with information and skills that will help them choose a major and develop numerous strategies for academic success.

The Career Services Center provides workshops for students at all levels on decision making and career connections with liberal arts majors. Student paraprofessionals offer opportunities for individual counseling as well as group sessions concerning choosing majors, finding internships and employment.

Faculty advisers in each department assist students in planning their academic programs and inform them about the degree requirements of the programs. Graduate students required to secure an adviser's approval before enrolling include majors in chemistry, English, geosciences, sociology and theatre. The Career Services Center provides workshops for students on decision making and career connections.

**College of Arts and Sciences General Education Requirements**
The College offers three degree options: the bachelor of arts, the bachelor of science and the bachelor of liberal arts. The general education requirements for all bachelor of arts and bachelor of science degrees are listed below. For information on the bachelor of liberal arts, please see the College's Liberal Arts section of the catalog.
The general requirements for the bachelor of arts and bachelor of science degrees are the same, with two exceptions:
- The bachelor of science degree requires a minimum of 60 hours in math and science.
- The bachelor of science degree does not require any foreign language.

Students may earn a bachelor of science degree in the following disciplines:
- Chemistry
- Environmental Science
- Geography
- Geology
- Mathematics and Statistics
- Physics

In all instances, students should contact the appropriate department concerning its requirements for a bachelor of science degree.

**A. Communication (12 credit hours)**
Every student must complete the following:
First Year Writing course. ENGLISH 110 or HMNTY 105P. This requirement may be satisfied by scoring 30 or higher on the English subsection of the ACT or 690 or higher on the verbal subsection of the SAT.

Sophomore-level Writing Intensive course. ENGLISH 225 or HMNTY 202P.

The UMKC Written English Proficiency Test (WEPT). The WEPT is a prerequisite for all writing intensive courses and should be taken after a student has completed ENGLISH 225 and 45 credit hours. The WEPT is also a graduation requirement for all students. Those who fail the WEPT twice must take ENGLISH 299; this course, which does not count towards the degree, will serve as the WEPT for students who earn a C- or better in the course.
Junior/Senior-level Writing Intensive (WI) course. Upper-level (300/400-level) Writing Intensive courses are designated with WI or PW following the course number. Writing Intensive courses should be completed during the junior or senior year and after the completion of the three requirements above.

One course in which oral argumentation is a major focus. This requirement is met by the courses

- COMM-ST 110, 212, 213, 254P, 311, 343,
- THEATER 121 or
- HMNTY 404PW.

B. Mathematical, Symbolic and Logical Reasoning (6 credit hours minimum)
Every student must complete the following:
MATH 110 or higher (except MATH 125), or demonstrate competency equivalent to four units (years) of acceptable high school mathematics, beginning with Algebra I or higher.

One course requiring extensive use of mathematical, symbolic or logical reasoning. This requirement is met by the courses

- Any mathematics course at or above the 200 level (under the curricular designation of Mathematics or Statistics and offered in the mathematics department); or
- PHILOS 222. (Note: PHILOS 222 may be chosen here only if it has not been chosen as the philosophy requirement below.)

C. Foreign Language and Culture (16 credit hours)
Every student must complete the following:

1. Three semesters of the same foreign language (110, 120 and 211) are required for all B.A. degrees.

- Students with high school or other foreign language experience are strongly recommended to take the language placement exam, which can be accessed on the Department of Foreign Languages website. Regardless of the level of placement, students must complete a sophomore-level course (211 or above).

- Students who have satisfactorily completed two years of a foreign language in high school will be exempt from the 110 college-level course and will be required to complete only two additional (120 college-level and above) courses in that same language.

- Students who completed four years of the same foreign language in high school must complete only one additional sophomore-level (211 or above) course in that same language.

- Full-time, degree-seeking students whose education through eighth grade, or the equivalent, has been in a language other than English shall be exempt from the foreign language requirement for the general education requirements. Students must contact the Department of Foreign Languages and Literatures to obtain a letter of exemption. Other speakers of a foreign language (i.e. heritage speakers) do not qualify for a complete exemption from the foreign language requirement, and would need to take at least one 3-credit hour course at the appropriate level.

- Students will not receive college credit towards a degree for any of the above exemptions.
• Students who have had more than two years of a foreign language in high school may not enroll in the 110 level course of that language at UMKC without special permission of the section head or coordinator for that language, or the chair of the Department of Foreign Languages and Literatures in cases where there is no course coordinator. (I.e., students who have taken three or more years of French may not enroll in French 110; those who have taken three or more years of Spanish may not enroll in Spanish 110; and the same for all other languages taught at UMKC.)

• Heritage speakers may not enroll in 110-level courses without permission of the language coordinator or section head for their language, or the chair of the Department of Foreign Languages and Literatures in cases where there is no course coordinator. Instead they should take the courses designated for heritage speakers, or if there is no such course, they should speak with a Foreign Language advisor or the department chair about the appropriate level of course to take.

Note: A heritage speaker is someone who grows up with a certain family language in the home which is different from the dominant language in that country. In the case of the United States, the dominant language is English. So, a student who grows up in a family where they speak Spanish, or Chinese, or Arabic, or Russian, etc., would be a heritage speaker of that language. One course that focuses on cultural perspectives of an interdependent global environment. This requirement is met by the courses

• ART 315,
• BLKS 201, 315,
• ECON 412,
• ENGLISH 207,
• GEOG 200, 202,
• GERMAN 410/410A,
• HIST 201, 202, 206, 208,
• POL-SCI 220,
• SOCIOL/ANTHRO 103 or
• UPD 260.

D. Computer and Information Technology (3 credit hours)
Every student must demonstrate competence equivalent to a programming course or software application course that includes substantial computer experience. This requirement is met by one of the following courses
ART 114,
A&S 100,
COMP-SCI 100, 101, 105P or
An approved computer application course in the student's major/program.

E. Literature and Philosophy (6 credit hours)
Every student must complete the following:
One of the following literature courses
• BLKS 331, 333, 334, 335, 337,
• CLASSICS 210, 319,
- FRENCH 301, 303, 304,
- GERMAN 301,
- HMNTY 203P,
- SPANISH 301, 303, 304, 373, 374, 401 or 402,
- WLD-LIT 210, 220.

One of the following courses
- PHILOS 210,
- PHILOS 221,
- PHILOS 222, (Note: PHILOS 222 may be chosen here only if it has not been chosen as
the symbolic and logical reasoning requirement above) or
- HMNTY 106P.

F. Distribution Requirements for General Education
Social and Behavioral Sciences (three courses, 9 hours). The nine hours chosen to complete the
social and behavioral sciences distribution requirement in (a.) and (b.) below must come from at
least two different departments.
a. Constitution Requirement:
Every student must fulfill the Missouri state requirement to take a course covering the United
States Constitution and the Missouri State Constitution before graduation. Courses that satisfy
this requirement are
- CJC 320,
- HISTORY 101, 102, 360R,
- POL-SCI 210, POL-SCI 409P or
- SOC-SCI 102P.
b. Distribution Electives:
Every student must also complete two courses from the social and behavioral sciences. Students
may select courses from the following departments/areas:
- Anthropology
- Black Studies (social science topics only, which include 302, 320, 321 325 or 404)
- Criminal Justice and Criminology
- Economics
- Geography (regional or cultural topics only, which include GEOG 105, 200, 202, 210,
  300, 309, 311, 329, 332, 333, 340, 341, 342, 350, 351, 352, 355, 403, 405, 410, 415, 435,
  437, 460, 489 or 496 only)
- History
- Political Science
- Psychology
- Sociology
- SOC-SCI 210 or 220
- Urban Studies
Physical and Biological Sciences (two courses, 8 hours minimum). Every student must complete at least two lecture courses in the physical and/or biological sciences. One of the courses must be a lecture/laboratory combination. Students may select courses from the following departments/areas:

- Chemistry
- Environmental Science
- Geography (physical geography topics only, which include GEOG 150, 203, 215, 314, 317, 319, 335, 336, 360, 398, 401, 402, 404, 406, 426, 430, 435, 442, 444, 448 or 450 (http://www.umkc.edu/umkc/catalog/htmlc/as/geo-sc/geog/c450.html))
- Geology
- Natural Science
- Physical Science
- Physics
- Biology

Humanities and Fine Arts (two courses, 6 hours).

a. Fine Arts:
Every student must complete one of the following courses:
- ART-HIST 110, 110P, or any upper-level (300/400) course in art history
- ENV-DSN 110
- THEATRE 130, 210
- CONSVTY 120

b. Humanities:
Every student must complete one additional course from any of the following departments/areas:
- Art (Studio)
- Art History
- Black Studies (selected topics)
- Classics (selected topics)
- Communication Studies
- English
- Foreign Languages
- Humanities
- Philosophy
- Theatre

Interdisciplinary Cluster Course (one course, 3 hours). Every student is required to complete a junior/senior interdisciplinary cluster course. Cluster courses provide opportunities to study special themes or historical periods from the perspective of several different disciplines at once and to show how different disciplines complement each other to form a more comprehensive understanding of a given topic. See the subsection below on "Interdisciplinary Cluster Courses" for additional information and a list of approved cluster courses.

G. Capstone Course
All students in a major must complete a course designated as a capstone course in their major.
H. Additional Requirements and Restrictions
A minimum of 120 total credit hours is required for graduation. At least 36 credit hours must be at the 300-400 level. A 2.0 overall GPA is required for graduation. However, the required major GPA may be higher, as determined by each department individually. A maximum of 3 hours of one-credit activity courses in physical education may be applied toward the 120 minimum.

Cluster courses provide opportunities to study special themes or historical periods from the perspective of two or more different disciplines at once. Each course is developed to integrate with one or more courses in other fields to show how different disciplines complement each other to form a more comprehensive understanding of a given topic. All courses within a given cluster meet at the same time, so the students can all meet together periodically to explore the cluster theme. In some clusters, the classes meet together all the time so that the different disciplines are integrated throughout the course.

As part of the B.A. and B.S. humanities area requirement, the College requires that all students, including humanities majors, take an interdisciplinary cluster course (specially designated courses taught by faculty from at least two different departments, one of which must be in the Division of Humanities or the Department of History). Students should also discuss with their advisers how cluster courses fit into their personal degree programs. As a general guide, individual courses in each cluster:

Count toward fulfillment of the humanities requirement for the B.A., B.S., and B.A./M.D. degrees.
Count, if they are numbered 300 or above, toward the 36 junior-senior hours of electives required for graduation.
Count toward fulfillment of the departmental requirements for majors in the field in which the course is taken.
Can be taken for graduate credit if numbered 300 or above, with departmental approval.
The following is a partial list of cluster courses now available. There are no prerequisites for any of these courses. See entries under the relevant departments for more detailed explanations of the contents of each course.

African and African American Women and Creativity
ART 300CF
A&S 300CF
SOCIOL 303CF

The African Diaspora in the Arts and Culture
ART 300CB
ART 300CD
COMM-ST 400CB

American Social Film: Silver Screen and the American Dream
AMER-ST 300CD
COMM-ST 402CD
ENGLISH 300CD
HISTORY 400CP/500CD

Ancient World/Cinema
CLASSICS 300CY
ENGLISH 300CY
HISTORY 400CY/500CY

Archaeology of Ancient Disasters
CLASSICS 300CZ
GEOLOGY 326CZ

Biological and Ethical Issues in Aging
NAT-SCI 430PC
PHILOS 401PC

Body Images in Medicine and the Arts
A&S 304CM
ART 300CM
COMM-ST 400C

Clio and the Other Muses: History and Culture in 5th Century Athens
CLASSICS 300CS
ENGLISH 300CS
HISTORY 400CS

Courts and Culture in the High Middle Ages
ENGLISH 400CF
FRN-LNG 400CF
HISTORY 400CF/500CF

Critical Issues in Women’s/Gender Studies
ENGLISH 300CW
HISTORY 400CW
SOCIOL 303CW

Culture, Kultur, Civilisation: Identity Formation in the Middle Class
FRN-LNG 400CI
HISTORY 400CI

Environmental Sustainability
ENV-SCI 332CZ
UPD 332CZ **Film Adaptation**
COMM-ST 406CD
ENGLISH 406CD

    Healing and the Arts

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ART 300CH
A&S 490CH
CONSVTY 300CH
THEATRE 300CH

Intro to German Studies
GERMAN 313
HISTORY 400GS

Making the Modern in France: Dance, Art, Music, and Literature
ART-HIST 402CC
FRN-LNG 402CC

Mexico, Central America and the Human Condition
ECON 300CM
FRN-LNG 300CM
HISTORY 300CM/500CM

Nazi-Occupied Europe & the Holocaust
FRN-LNG 400CM
HISTORY 400CM

The Practice and Study of Creativity
CONSVTY 497CH
THEATRE 401CH

Radical Changes Since 1945
ART-HIST 400CE
COMM-ST 403CE
ENGLISH 300CE
HISTORY 400CE/500CE

Religion in America
HISTORY 401A

Roman Revolution; History and Culture from Gracci to Augustus
CLASSICS 300CR
ENGLISH 300CR

Women in the Ancient World
CLASSICS 300CB
ENGLISH 300CB

Students should also look for other specially designated cluster course offerings under one of the following course numbers, ART 300, ECON 300CS, ENGLISH 300, PHILOS 400, POL-SCI 300, PSYCH 300CS, SOCIOL 303, AND THEATRE 300CR.
Students transferring into the College of Arts and Sciences with a certified 42-hour block of general education credit from another Missouri institution must complete the following additional general education requirements for baccalaureate degrees in the College:

**Bachelor of Arts**
- Three semesters of the same foreign language.
- Interdisciplinary junior/senior Cluster course.
- Written English Proficiency Test (WEPT).
- Junior/senior level Writing Intensive course.

**Bachelor of Liberal Arts**
- Written English Proficiency Test (WEPT).
- Junior/senior level Writing Intensive course.

**Bachelor of Science**
- Interdisciplinary junior/senior Cluster course.
- Written English Proficiency Test (WEPT).
- Junior/senior level Writing Intensive course.
- 60 total credit hours (including hours in the major) of math and science.

**UMKC's 42-Credit Hour Certified General Education Core for Students Transferring to Another Missouri Institution**
College of Arts and Sciences students wishing to complete the 42-hour core should also consult with an academic adviser in the Arts and Sciences Advising Office, 9 Scofield Hall.

**CAS Arts and Sciences Student Council**
The council aims to provide an interdisciplinary body in which Arts and Sciences students can provide input on decisions and policies of the College. The council works to enhance student-faculty interaction and communication; allocate its authorized budget; and ensure that Arts and Sciences students' needs, desires and attitudes are correctly represented to the administration.

**College of Arts & Sciences General Undergraduate Academic Regulations**
In addition to the information below, see the earlier College section entitled Advising System.
All freshmen, general studies and undeclared students are required to secure an adviser's approval to register for classes. In addition, undergraduate majors in art, chemistry, physics and theatre, and graduate students in chemistry, English, geosciences, sociology and theatre must secure adviser's approval to register.
Any student on academic or special contract probation, requesting an overload, or requesting the credit/no credit option, must secure an adviser's approval before completing registration.
Students must have the signature of the instructor or faculty adviser on a special consent form before they are allowed to register in any art courses beyond the 100-level, Arts and Sciences 350 (Honors Tutorial), Special Topics, Directed Field Experience, Directed Readings, Individual Research or any other courses specified by a department.
All students in the College are also subject to any special signatures required by other academic units at UMKC.
If a course is repeated at one of the four UM campuses, the hours and grade points of both the original and repeated courses are used in computing the grade-point average. Only the earned hours from the last repeated enrollment will apply toward degree requirements or total hours required for graduation. A maximum of 30 acceptable semester hours (2.0 GPA or better) of study in professional schools may be applied toward the bachelor's degree. Acceptable professional schools for this purpose are law, dentistry, optometry, pharmacy, nursing and medicine. This credit is elective credit and does not satisfy any specific degree requirement.

Writing Intensive courses, designated with a WI or PW following the course number, are intended to help students learn to express themselves formally and coherently in discursive prose. Writing in this connection is to be regarded not as a corpus of art or information to which students should be exposed, but as a crucial skill, the teaching of which is among the primary missions of the College. It is assumed that extended and intensive writing can be equated with contemplation and concentration on the subject matter; students learn by writing in any field.

Each Writing Intensive course includes several writing assignments and these assignments form an integral part of students' efforts to progress in the course. A review and revision cycle is used with systematic feedback. The students' writing might address philosophical concerns, methods, or specific topics, but their work is always based on exposure to published expository writing. While the exercises may take different forms, they may include:

1. Prewriting; e.g., outlines, journals, free-writing exercises and organizational notes.
2. Submission of preliminary drafts for oral and written responses by the instructor (peer response also might be incorporated).
3. Revision of content, organization, mechanics and style.

Students will prepare a number of different assignments of varying lengths and intent. An extended essay or term paper is expected in all Writing Intensive classes. Examinations may incorporate essay questions. A minimum of 120 hours is required for graduation. Of those hours, 36 must be at the 300-400 level. A minimum cumulative grade-point average of 2.0 is required as well as a 2.0 in the major. (Some majors have additional GPA requirements. Students should consult the appropriate section of this catalog for their major.)

The general minimum residence requirement for the undergraduate degree is the final 30 consecutive semester hours of coursework. In the case of students using 30 hours in a UMKC professional school to complete their undergraduate degree, the residence requirement becomes the final consecutive 30 hours of the College's coursework prior to entrance into the professional school.

The WEPT is a prerequisite for all Writing Intensive courses and should be taken after a student has completed English 225 and 45 credit hours. The WEPT is also a graduation requirement for all students. Those who fail the WEPT twice must take English 299; this course, which does not count towards the degree, will satisfy the WEPT requirement for students who earn a C- or better in the course.

The WEPT is given twice each fall and spring semester and once in the summer; the dates of the test appear regularly on the Academic Calendar in the Schedule of Classes. Students should visit the WEPT website for the most up-to-date information about taking the exam. To register for the WEPT, students should log on at http://www.umkc.edu/WEPT.

For information about WEPT tutoring and WEPT workshops; please contact the Writing Center at 235-1146. For more information about all other concerns, please contact Dr. Lindsey Martin-Bowen at bowenlm@umkc.edu.
After completion of 90 credit hours, students should file an "Application for Graduation" form in the Arts and Sciences Academic Advising Office, Scofield 9. After the application is filed, a review of the student's transcript is prepared, and the student is contacted through UMKC student e-mail to come to the Advising Office for an audit of the general education requirements. During this degree audit process, the following are checked:

- The student's transcript is compared to the general education requirements. All remaining general education requirements are outlined and discussed.
- The student's information is reviewed to insure all majors and minors, as appropriate, have been declared.
- The student's total hours, junior/senior level hours, residence requirements, the minimum major and minor hours, and grade-point average are reviewed.

After the general education portion of the degree audit is complete, the student is given a major degree audit form and a copy of his/her transcript to take to the major adviser for completion. When the major portion of the degree audit has been completed, the student is responsible for returning it to the Arts and Sciences Advising Office. This process is repeated for any additional majors and/or minors.

There are several other important components of the graduation process that the student is solely responsible for completing:

- All students are required to take the MAPP, administered by the Assessment Office.
- Students with majors must also check with their department to see if a Major Field Exam is required.
- Students should have their degree audit updated every semester to make sure they are still making progress towards graduating during the semester for which they have applied.
- Students are responsible for making sure their address and telephone numbers are correct in the student information system. This should be checked each semester.
- Students must check their UMKC e-mail account regularly for important and relevant graduation and other information.
- Any incomplete grade on a student's transcript must be completed and recorded in the Registrar's Office by the end of the semester in which he/she is graduating.
- Any missing transcripts must be received by the Office of Admissions by the end of the semester in which a student is graduating.

Reapplying for Graduation

If a student does not graduate in the semester for which he/she has applied, he/she must reapply for graduation in the Arts and Sciences Advising Office. The College cannot extend a student's application to the next semester without written notification from the student. Exceptions to academic regulations must be approved by the Academic Standards Committee of the College of Arts and Sciences. To seek exceptions, students must file a "Petition for Exception" form in the Arts and Sciences Advising Office, 9 Scofield Hall.

**CAS Study Abroad Programs**

Center for International Academic Programs

5325 Rockhill Road

(816) 235-5759

http://www.umkc.edu/international

In collaboration with the Center for International Academic Programs, the College helps make available to its students a variety of study abroad programs that provide an exciting way to add a global dimension to their UMKC education through exploring and sharing the cultures of other countries. Study abroad programs are available for a summer, semester or academic year. Students can earn credit towards their degree, and with careful planning, they should lose no time toward graduation. Study abroad is affordable since financial aid and scholarships are applicable to many programs, and other grants and scholarships are available specifically for study abroad.
The exchange university consortium, Mid-American Universities International, InterFuture, foreign exchanges offered through the Department of Foreign Languages and Literatures, and the Missouri-London program are among the many program choices available. Among the possible destinations are: 

Argentina    England    Korea
Scotland
Australia    Finland    Lithuania    Slovenia
Austria    France    Malta    South Africa
Belgium    Germany    Mexico    Spain
Chile    Greece    Netherlands    Sweden
Costa Rica    Iceland    New Zealand    Switzerland
Czech Republic    Ireland    Norway
Denmark    Italy    Portugal

For more information regarding study abroad and related scholarships, please visit http://www.umkc.edu/international. Additionally, the UMKC Study Abroad Coordinator is available at (816) 235-5790.

**Pre-Professional Programs**

Prerequisites for advanced professional programs in law and the health professions can be satisfied as a part of any degree program in the College of Arts and Sciences.

**Pre-Medicine, Pre-Dentistry and Pre-Health Advising:**

Please see the additional catalog section on Pre-Medicine/Pre-Health for more detailed information on pre-medicine, pre-dentistry and pre-health.

Program Director:
Dennise Todd 
http://www.umkc.edu/lookup/search.asp?LastName=lyon
Scofield Hall, Room 9 711 East 51st Street (816) 235-6270 todddn@umkc.edu Some of the most popular pre-professional programs in health care include:
- Pre-Dental Hygiene
- Pre-Dentistry
- Pre-Medicine (allopathic and osteopathic)
- Pre-Occupational Therapy
- Pre-Optometry
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Respiratory Therapy
- Pre-Veterinary Medicine

**Pre-Law Advising:**

Specific details on the College's pre-law program can be found in the Pre-Law section of this catalog.

Program Coordinator:
Carla Oppenheimer, J.D. Scofield Hall, Room 9 711 East 51st Street (816) 235-6094 
oppenheimerc@umkc.edu Faculty Director: David N. Atkinson, Curators' Professor of Political Science 
http://www.umkc.edu/lookup/search.asp?LastName=atkinson
atkinsond@umkc.edu

**CAS Advanced Preparation Program (APP)**

The Advanced Preparation Program (APP) provides a model of a new approach to student success that builds on existing institutional strengths. It is an innovative collaboration with the College of Arts and Sciences and the Office of Admissions. UMKC admits individuals from urban communities who possess the academic potential to achieve at UMKC, but who could benefit from advanced preparation during their freshman year. APP's mission is to provide program participants with trial admission under the College of Arts and Sciences, accompanied by support services that enhance their opportunities to go beyond surviving to thriving.
Any APP students seeking a degree under the College of Arts and Sciences will be allowed to count Math 100 and English 100 as elective hours toward graduation, but students must have received advising from an APP staff member.

**Architecture, Urban Planning and Design**  
Department of Architecture, Urban Planning and Design  
Katz Hall Room 109  
5005 Rockhill Road  
(816) 235-1725  
aupd@umkc.edu  
http://cas.umkc.edu/AUPD

**Mailing Address**  
University of Missouri-Kansas City  
Department of Architecture, Urban Planning + Design  
109 Katz Hall  
5100 Rockhill Road  
Kansas City, MO 64110-2499

Department Chair: Joy D. Swallow, M.Arch., F.A.I.A.  
Associate Professors: Joy D. Swallow (chair), M.Arch., F.A.I.A.; Michael Frisch, Ph.D., A.I.C.P.; Sungyop Kim, Ph.D.; Jacob A. Wagner, Ph.D.  
Assistant Teaching Professor: John Eck, M.Arch., R.A.  
Lecturers: Sylvia Augustus; Christopher Brewster, J.D., A.I.C.P.; Ken Conrad, P.E.; Daniel Dermietzel; Vincent Gauthier, A.I.C.P.; Vince LaTona; David Knopick, A.I.C.P; Sue Malik, R.A.; Vicki Noteis, A.I.A.; Rebecca Riden, A.I.A.; Theodore H. Seligson, F.A.I.A.; Greg Sheldon, A.I.A.; Daniel Shervington; Robyne Stevenson, Ph.D.; Ryan Townsend; Lauren E. Wendlandt, R.A.; Richard Wetzel, A.I.A. Joint Appointment: Joseph Hughey, Ph.D., (professor, department of psychology); Rochelle Ziskin, Ph.D. (professor, art and art history); Robert Cohen, Ph.D., (visiting research associate professor, art and art history)  
Administrative Assistant: Stella Szymanski  
Participating Faculty: Caroline P. Davies, Ph.D., (associate professor, geosciences); Steve Driever, Ph.D., (professor, geosciences); Wei Ji, Ph.D, (professor, geosciences); James Sheppard, Ph.D., (assistant professor, philosophy);

- Student Learning Outcomes
- Program Requirements
- Department Description
- Financial Aid
- Admission and Advising
- Student Activities
- Open House
- Architectural Studies Major
- Bachelor of Arts in Urban Planning and Design
- Courses
  - Architectural Studies (ENV-DSN) Courses
  - Urban Planning and Design (UPD) Courses
AUPD Department Description
The Department of Architecture, Urban Planning and Design has two degree tracks to choose from. One degree track is a B.A. in Urban Planning and Design. This degree program is a four-year degree and can be completed at UMKC in its entirety.

The second track leads to a degree in one of the following professional areas: architecture, landscape architecture and interior architecture. This track is a two-year program, offered in conjunction with Kansas State University's College of Architecture, Planning and Design.

UMKC is an urban university, and architecture, urban planning and design is consistent with our vision for our community and region. Kansas City is a great urban laboratory. Few American cities have the planning and design tradition of Kansas City. We think this sets us apart, and places the students within a professional community with unmatched resources, whether one is studying architecture, interior architecture, landscape architecture or urban planning and design.

As the United States population continues to grow and is concentrated in metropolitan areas, urban planning and design is becoming a societal imperative. Planners address diverse public issues affecting where people live, work, and play; where they shop and receive health care; how they get from place to place; what our communities look like; and how we use our resources.

AUPD Financial Aid
Many scholarships and student financial aid alternatives are available. Every year approximately 80 percent of our students have some form of scholarship. For students who qualify, UMKC can be a great resource for scholarship assistance. Contact the UMKC Financial Aid Office (phone: (816) 235-1154) for scholarship information.

AUPD Admission and Advising
Admission to the Department of Architecture, Urban Planning and Design is selective. Seats are limited to 36 incoming students in the Architectural Studies curriculum. Interested students can call or e-mail the department and schedule an appointment for a visit with one of our advisers. On-campus location, contact information and mailing address appear at the beginning of this section.

AUPD Student Activities
The department supports two student organizations, AIAS and PDS, on the UMKC Campus.

The American Institute of Architecture Students (AIAS) is a national student organization for students studying architecture and related fields. Many times the professionals serve as mentors to students on various capacities. Every year students attend national and regional AIAS meetings around the country.

Planning and Design Students (PDS) is a student organization for students studying Urban Planning and Design. The students interact with the local APA (American Planning Association) chapter in a variety of activities. A group of students attend the national conventions that are held in various locations around the country every year.

The American Public Works Association (APWA) is a student organization that consists of a multi-disciplinary group of students (i.e. Engineering, Geosciences, Public Administration) from across the campus. The APWA's national office is in Kansas City, and UMKC is the first campus to initiate an APWA student group. This organization allows students to interact with private industry, as well as governmental agency professionals.

AUPD Open House
The department hosts an open house on the Friday before Thanksgiving every year. An exhibition of student work is on display and representatives from the scholarship office also are on hand to answer questions. Check the AUPD Web site for exact dates for this event. Information appears at the beginning of this section.
Architectural Studies

Architectural Studies is a two-year cooperative program with Kansas State University that began in 1987. The accredited curriculum at the KSU College of Architecture Planning and Design is offered at UMKC for the first two years of study. After successfully completing the coursework at UMKC, students are eligible for entry to Kansas State University, College of Architecture Planning and Design. There, students can study architecture, interior architecture and landscape architecture.

Architectural Accreditation

The Kansas State University College of Architecture, Planning and Design (with which the UMKC Architectural Studies Program collaboratively participates) is accredited by the National Architectural Accrediting Board (NAAB).

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the bachelor of architecture and the master of architecture.

A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Master's degree programs may consist of a pre-professional undergraduate degree and professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Architecture Courses

Bachelor of Arts in Urban Planning and Design

Students graduating with a baccalaureate degree in planning should have significant exposure to each of the basic subject areas of knowledge, skills and values.

Knowledge of

- Structure and functions of urban settlements.
- History and theory of planning processes and practices.
- Administrative, legal and political aspects of plan-making and policy implementation.
- Familiarity with at least one area of specialized knowledge of a particular subject or set of issues.

Skill in

- Problem formulation, research skills and data gathering.
- Quantitative analysis and computers.
- Written, oral and graphic communication.
- Collaborative problem solving, plan-making and program design.
- Synthesis and application of knowledge to practice.

Value in

- Issues of equity, social justice, economic welfare and efficiency in the use of resources.
- The role of government and citizen participation in a democratic society and the balancing of individual and collective rights and interests.
- Respect for diversity of views and ideologies.
- The conservation of natural resources and of the significant social and cultural heritages embedded in the built environment.
• The ethics of professional practice and behavior, including the relationship to clients and the public, and the role of citizens in democratic participation.

The Urban Planning and Design program provides an innovative curriculum that incorporates a combination of broad liberal arts courses, with a core of professional planning classes, coupled with a series of design studios. The design studio represents a forum where students employ a creative process, infused with knowledge gained from supporting courses, to generate holistic urban planning and design solutions. Urban design projects will engage professionals, civic officials, neighborhood leaders and government officials into an important dialogue.

**Studio**

- ENV-DSN 201 Environmental Design Studio I
- ENV-DSN 202 Environmental Design Studio II
- UPD 310 Planning & Design Studio I
- UPD 312 Planning & Design Studio II
- UPD 410 Planning & Design Studio III
- UPD 411 Professional Practice I
- UPD 412WI Planning & Design Studio IV
- UPD 413 Professional Practice II

**Urban Planning**

- UPD 203 GIS for Urban Planning
- UPD 260 History of Planning and Urban Design
- UPD 280 Land Use Planning
- UPD 300 Quantitative Planning Methods and Techniques
- UPD 320 Planning Theory and Practice
- UPD 432 Urban Environmental Planning and Design
- UPD 450 Planning Law & Practice
- UPD 490 Urban Planning Internship

We also require Statistics and either Microeconomics or Macroeconomics.

**Planning and Professional Electives** (6 credit hours minimum required)

- UPD 332CZ Environmental Sustainability
- UPD 340 Neighborhood and Community Development
- UPD 400 Advanced GIS for Urban Planning
- UPD 420 Transportation Planning
- UPD 430 Planning for Historic Preservation
- UPD 440 New Urbanism
- UPD 460CC Queer in the City: An Introduction to Lesbian and Gay Studies
- UPD 472 Urban Redevelopment
- UPD 499_ Special Topics in Urban Planning

**Urban Social Science** (3 credit hours minimum required)

This includes but is not limited to ANTHRO 331, ECON 336, ECON 458, GEOG 309, HISTORY 356, POL-SCI 424, POL-SCI 438, PSYCH 403, SOCIOL 431, SOCIOL 433, SOCIOL 434. The Department will approve other related urban social science classes as needed.
Architectural Studies
Architectural Studies is a two-year cooperative program with Kansas State University that began in 1987. The accredited curriculum at the KSU College of Architecture Planning and Design is offered at UMKC for the first two years of study. After successfully completing the coursework at UMKC, students are eligible for entry to Kansas State University, College of Architecture Planning and Design. There, students can study architecture, interior architecture and landscape architecture.

Architectural Accreditation
The Kansas State University College of Architecture, Planning and Design (with which the UMKC Architectural Studies Program collaboratively participates) is accredited by the National Architectural Accrediting Board (NAAB).
In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the bachelor of architecture and the master of architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards. Master's degree programs may consist of a pre-professional undergraduate degree and professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Architecture Courses


**Art and Art History**

**Department of Art and Art History**  
Fine Arts Building, Room 204  
5015 Holmes Street  
Kansas City, MO 64110  
(816) 235-1501  
art@umkc.edu  
http://info.umkc.edu/art

**Mailing Address:**  
University of Missouri - Kansas City  
Department of Art and Art History  
5100 Rockhill Road  
Fine Arts Building, Room 204  
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Department Chair: Elijah Gowin

Professors:  
Frances S. Connelly  
Burton L. Dunbar Principal Graduate Advisor in Art History  
Elijah Gowin  
Kati Toivanen  
Maude Wahlman  Dorothy & Dale Thompson/Missouri Endowed Professor of Global Arts  
Rochelle Ziskin

Associate Professors: Barry Anderson  
Paul Tosh

Assistant Professor:  
Cristina Albu  
Richard W. Allman Principal Graduate Advisor in Studio Art

Research Associate Professor and Joint Appointment with The Nelson-Atkins Museum of Art:  
Robert Cohon

Full-time Lecturer: Davin Watne Principal Undergraduate Advisor in Studio Art

Visual Resources Director:  
Carla Gilliland Poirier

Olson Professor:  
Craig A. Subler

Professors Emeriti:  
Eric J. Bransby  
William Crist  
George Ehrlich  
Geraldine E. Fowle
Stephen Gosnell  
Leonard Koenig  
Barbara Mueller

Instructor Emeritus:  
Nancy DeLaurier

Department Description
Special Resources/Programs
Undergraduate Admission Requirements and Advanced Placement Procedures

Undergraduate Degrees:

- Bachelor of Arts: Art History  
- Student Learning Outcomes

Program Requirements
Bachelor of Arts: Studio Art

- Student Learning Outcomes

Program Requirements

Undergraduate Courses:

- Art (ART) Courses

Art History (ART-HIST) Courses

Graduate Degrees:

- Master of Arts: Art History  
- Student Learning Outcomes

Program Requirements
Master of Arts: Studio Art

- Student Learning Outcomes

Program Requirements

Graduate Courses:

- Art (ART) Courses

Art History (ART-HIST) Courses

Program Overview

Degree programs in Studio Art and Art History at UMKC are the B.A. and the M.A. Art History also participates in the Interdisciplinary Ph.D. program. All the programs provide an exciting educational experience in a liberal arts setting.

The Studio Art faculty is comprised of accomplished and actively exhibiting artists, offering courses in drawing, painting, graphic design, printmaking, digital imaging, motion design, and photography. The faculty of six art historians, one a joint appointment with the Nelson-Atkins Museum, offer courses in the art and architecture of Ancient, Northern Renaissance, Baroque, Modern European, Contemporary, and American, Native American, African, and African-American cultures. The strong adjunct faculty consists of local artists, art educators and professionals. Curators from The Nelson-Atkins Museum of Art regularly offer advanced Art History courses, most recently on topics like Decorative Art, Asian Art, Islamic Art and the Spiritual in Contemporary Art.

Outside of the classroom, physical proximity and professional connections to the museums, studios and art organizations in Kansas City community offer students additional opportunities for internships, visiting artists, and enrichment programs to supplement coursework. Classes make use of the extensive
collections at The Nelson-Atkins located three blocks away, as well as the major contemporary collections in Kansas City, including those of the Kemper Museum of Contemporary Art, the Belger Arts Center and the Nerman Museum of Contemporary Art. Kansas City is nationally known for its vibrant arts scene, with the UMKC Gallery of Art, the Urban Culture Project, the H&R Block Artspace, Grand Arts and the many galleries in Crossroads Arts district. Research in Art History is supported by the Miller-Nichols Library at UMKC, the Spencer Art Reference Library at the Nelson-Atkins Museum, and the Linda Hall Library.

**Career Opportunities**

Career opportunities in Studio Art include education, arts administration and practicing art and design in fields of graphic design, interactive design, video arts, motion graphics, photography, digital arts and illustration. Graduates in the Studio Art programs at UMKC have found employment with Artist Inc, Epsten Gallery at Village Shalom, Review Publishing, the Kansas City Municipal Commission and as successful independent artists. Students have been accepted into graduate programs at institutions including the University of Missouri at Columbia, Sam Fox School at Washington University, Guildhall at Southern Methodist University and the Rhode Island School of Design. Career paths in Art History include work in museums and galleries, educational institutions, and arts administration. Other career choices that mesh well with an Art History degree are publishing, art appraisal, non-profit art or history organizations, archival work, and library science. Graduates from the Art History M.A. program at UMKC have found positions at the Los Angeles County Museum of Art, the Nelson-Atkins Museum, the H&R Block Artspace, the Kemper Museum of Contemporary Art, Avila University, the Wadsworth Atheneum, and the University of North Carolina at Chapel Hill, as well as right here at UMKC. The M.A. degree at UMKC provides an excellent preparation for doctoral work. Degree requirements are structured to give students a thorough background in research methodology, and courses are taught by faculty actively involved in research. Our graduates have continued their work toward the Ph.D. at institutions including the University of Chicago, Princeton University, Case Western Reserve University, the University of Michigan, and the University of Kansas.

**Art and Art History Department Description**

The Department of Art and Art History serves a variety of students, ranging from the non-major to the professionally oriented. The department offers programs leading to the Bachelor of Arts and Master of Arts degree in Art History or Studio Art, as well as minors in each area. Art History also participates in the Interdisciplinary Ph.D. program. Students majoring in Art History or Studio Art obtain a broad liberal arts education during their undergraduate career and receive sound fundamental training in the arts. The department also collaborates with other departments and schools, with a combined major in Art History and History, and working with the School of Education on the Art Education degree.

**Art and Art History Special Resources/Programs**

**UMKC Gallery of Art**

The department is home to the UMKC Gallery of Art. The gallery organizes curated shows from visiting local, national, and international artists, as well arranging shows of student and alumni work. The annual Student Art Exhibition is a guest-juried exhibition that features the work of the current student body.
Visual Resources Library
The department is also home to the Visual Resources Library, which helps instructors find images and visual materials to use in the classroom, and is a resource available to any UMKC faculty member.

The Nelson-Atkins Museum of Art
The University of Missouri-Kansas City is fortunate to be adjacent to one of the most comprehensive and distinguished art museums in the country: The Nelson-Atkins Museum of Art. In addition to having ready access to the gallery's collection, advanced students may be privileged to use the museum's other facilities, such as the reference library, the acquisition records or the museum's collections. Use of these facilities is undertaken only after consultation with a member of the faculty. Admission to the museum is free to everyone. The department also maintains a close relationship with the museum through joint appointments, curator-taught seminars, student internships and other cooperative programs.

Undergraduate Admission Requirements
Undergraduate Admission Information
In undergraduate studies, the Studio Art and Art History programs offer Bachelor of Arts degrees. For incoming freshmen, there are no special requirements beyond those for admission to the University. Transfer students to UMKC planning to major in Studio Art need to meet with a Studio Art advisor prior to beginning classes to evaluate their portfolios and transcripts to determine course equivalencies and possible advanced placement.

Bachelor of Arts: Art History
Student Learning Objectives
Students graduating with a B.A. degree in Art History will:

- Have a basic knowledge of both Western and Non-Western art history.
- Have developed effective writing skills.
- Be able to understand the context of information contained in scholarly publications.

Students graduating with a B.A. degree in Art History will be prepared for entry into a graduate program, or the job market.

Art History Curriculum
Formal study of the history of art begins with introductory survey courses. There are three such courses in Western art (ART-HIST 301, ART-HIST 302, and ART-HIST 303) and two in non-Western art (ART-HIST 315 and ART-HIST 319). There are no prerequisites for these courses. These courses are assigned 300-level numbers. They cannot be taken for graduate credit. Students are encouraged to take the survey sequence in Western art sequentially, if possible.

Seminars are considered advanced-level courses and are assigned 400- and 5000-level numbers. The prerequisite for these courses is the relevant survey course, or permission of the instructor. Enrollment will be granted by permission of the student's department advisor on the basis of previous study in art history or cognate fields. Undergraduate participation in a graduate-level seminar is feasible for selected students through enrollment in a suitably titled, independent-study course.
A small group of independent-study courses, titled generically by major periods or cultural divisions in the history of art, are assigned 497-level numbers. Enrollment in these courses is granted only by the instructor who will supervise the study. Graduate credit is possible only when a student is admitted to graduate study.

Cluster courses are taught through the program of integrated studies in the humanities. These are interdisciplinary courses offered in conjunction with one or more similar courses in cognate disciplines, but in our case, with an emphasis on the knowledge base appropriate to the history of art.

**Program Requirements**

The three Western surveys: ART-HIST 301, ART-HIST 302 and ART-HIST 303.
At least three seminar courses (400-level with at least two different faculty).
At least two non-Western courses (survey or seminar).
At least nine hours of studio art: ART 112, ART 114, and ART 206 are recommended.
College-mandated capstone course: ART-HIST 482.
At least 12 hours each in two cognate fields (e.g. history, literature, foreign language).

**Grade-point Average Requirements**

All art history majors are required to maintain a minimum of 2.5 GPA in art history courses.

**Combined Major in Art History and History**

The department also participates in a combined major in art history and history. For students majoring in either department, this program permits the option of a combined program of integrated studies in both subjects. The combined program is especially intended for the superior student who wishes to explore in-depth the integrated effects of political, religious, economic and artistic developments of selected periods in Western European and American history.

Enrollment in the combined program will be plotted by the coordinators of the program in both departments working individually with each student. A detailed set of requirements is available on request, but the combined major requires 39 hours with 18 specified hours in the primary department; nine specified hours in the secondary department; nine restricted elective hours; and a three-hour capstone course (directed studies) in which a student pursues a senior project related to a problem of study common to history and art history and directed by faculty members in both disciplines.

**Minor in Art History Requirements**

A minor consists of a minimum of 18 credit hours. ART-HIST 301, ART-HIST 302, and ART-HIST 303 are required courses. an additional 9 hours should be selected with an Art History adviser at the 300- or 400-level.

**Bachelor of Arts: Studio Art**

**Student Learning Objectives**

Students graduating with a B.A. degree in Studio Art will:
- Have the basic skills for the practice of art in one or more specialized disciplines.
- Be aware of the latest advances in adapting technology for the creation of works of art, including appropriate software and hardware skills.

Students graduating with a B.A. degree in Studio Art will be prepared for entry into a professional school, a graduate program or the job market.

**Studio Art Curriculum**

Formal study in Studio Art begins with foundation courses. These are ART 112, ART 114, ART 121, and ART 131. There are no prerequisites for these courses. They cannot be taken for graduate credit.

Intermediate and advanced courses require the foundation series and possibly other prerequisites. The
areas of study are digital imaging, drawing, motion design, graphic design, photography, printmaking, and painting.

A small group of independent-study courses, titled generically by the area of study, are assigned 498-level numbers. Enrollment in these courses is granted only by the instructor who will supervise the study. Graduate credit is possible only when a student is admitted to graduate study.

Cluster courses are taught through the program of integrated studies in the humanities. These are interdisciplinary courses offered in conjunction with one or more similar courses in cognate disciplines.

Program Requirements
1. The foundation studio program or its approved equivalents: ART 112, ART 114, ART 121 and ART 131.
2. A minimum of 24 studio credit hours to include courses from at least three different studio areas (drawing, painting, printmaking, graphic design, photography, digital imaging and computer multimedia). At least 12 credit hours must be on the 300 or 400 level.
3. College-mandated capstone course ART 499WI or ART 423WI.
4. Art history: three courses from the survey sequence (ART-HIST 301, ART-HIST 302, ART-HIST 303 - recommended, ART-HIST 315, ART-HIST 319) and one 400-level Art History course (with appropriate 300-level prerequisite). Total Art History requirements: 12 credit hours. Up to 6 additional credit hours in Art History can be counted toward the 24 studio credit hours mentioned in requirement number two, with preapproval from a studio faculty advisor.

Grade-point Average Requirements
All studio art majors are required to maintain a minimum 2.5 GPA in studio art courses.

Minor in Studio Art Requirements
A minor in studio art may be earned by completing 21 hours of studio art taken in consultation with a faculty advisor.

Master of Arts: Art History
Student Learning Objectives
1. Students graduating with an MA in Art History will:
   - Have an advanced knowledge of specialized areas of art history.
   - Be able to communicate information both orally and in written form.
2. Students graduating with an MA in Art History will be prepared for entry into a PhD program or the job market.

Applications for Graduate Study
Applications for the M.A. in Art History are considered on a rolling basis, but students who would like to begin in the fall semester are encouraged to submit complete applications by March 15 of that year; those who would like to begin in the spring semester should submit their applications by November 1 of the preceding year. Submission by those dates will ensure maximum choice in course work. M.A. students who wish to be considered for GTA-ships during the following academic year must submit their applications by March 15.

Art History Classification of Entering Students
Admission to the graduate program in art history requires a B.A. or equivalent degree and sufficient undergraduate study in art history to provide a sound foundation for advanced study. Ideally, this foundation would include a solid grounding in the history of Western art, some study of non-Western art, and sufficient advanced-level work to indicate that a student can succeed in the specialized or topical
courses and seminars associated with graduate study. Admission review is done by the graduate advisor in Art History.

The applicant should have, in addition to a good general education in the humanities, 18 to 24 credit hours in art history with a grade-point average of 3.0 or better. Students with fewer hours and/or a restricted exposure to other humanities and fine arts courses, or having inconsistent grades, are eligible for admission to the graduate program on the basis of recent evidence indicating the potential for success, such as performance in 400-level courses, or through papers and exams for courses elsewhere. If there are some deficiencies in preparation that can be met readily by one or two undergraduate survey courses, a student will be admitted to graduate study. However, the survey courses must be taken for undergraduate credit before the student is allowed to take the qualifying examination that is required for advancement to degree candidacy.

Applicants lacking the minimum preparation deemed necessary for admission to graduate-level study in art history may make up their deficiency through enrollment in selected undergraduate courses offered by the department. These will be determined after consultation with a faculty advisor and in all cases must include 400-level work. Progress will be reviewed at the end of each term, and if warranted, reclassification to graduate status will occur prior to the start of the next semester.

Requirements for Graduation
All degree candidates are required to take a minimum of 30 graduate credits, including ART-HIST 5501, Scope and Methods of Art History, and a maximum of 6 credit hours of ART-HIST 5599, Research and Thesis. Other courses are determined in consultation with the adviser and the supervising committee for the thesis.

Special Requirements
Requirements for Retention
A student must maintain a graduate grade-point average of 3.0. In extenuating circumstances, a student may petition the Department of Art and Art History to be continued as a graduate student for one term (or 6 hours) if the graduate GPA falls below 3.0. The deficiency must be remedied during the approved probationary period if the student is to be continued.

Reading Knowledge in Foreign Language
M.A. students must acquire a reading knowledge of one foreign language considered essential to advanced study in art history before beginning the M.A. thesis. Students are encouraged to acquire this skill as early as possible in their graduate studies, so they may use it in graduate seminars and research papers. This requirement is most often fulfilled by three semesters at the college level, with a grade of B or better in the third semester. Students who believe they have acquired a sufficient reading knowledge, but have not completed three semesters of language training at the college level, may petition the graduate adviser to take a reading exam in that language. Normally, however, three semesters of college-level study are necessary to achieve sufficient mastery.

Thesis or Final Project in Art History
The final requirement for the M.A. degree in Art History is the M.A. thesis, which is normally begun two semesters before a student completes the degree. The thesis is an approved project that demonstrates capacity for independent work of a suitably high level of proficiency, one utilizing the primary sources available on the topic in English and in the foreign language that meets the program requirement, as well as the major relevant secondary sources. This project, selected in conjunction with the thesis advisor most often develops from a seminar paper, and its presentation must conform to the requirements of the School of Graduate Studies.
Master of Arts: Studio Art

Student Learning Objectives

1. Students graduating with an M.A. in Studio Art will:
   - Have an advanced knowledge of a specialized area of studio art.
   - Be proficient in adapting technology for the creation of works of art, including computer skills and digital photography.

2. Students graduating with an M.A. in Studio Art will be prepared for entry into an M.F.A. program or the job market.

M.A. in Studio Art Overview

For Studio Art, the UMKC Department of Art and Art History only offers the Master of Arts Degree, which is not the terminal degree in studio art and will not qualify candidates to teach on the University level. The M.A. in studio art has the following emphasis areas: painting, drawing, printmaking, photography, digital imaging, motion design, and graphic design. Most students will take the majority of their coursework as independent study classes under the direction of one faculty member in the graduate student’s area of emphasis. Students must decide which single emphasis area they plan to pursue before they apply for graduate school in the Department of Art and Art History.

Applications for Graduate Study in Studio Art

Application deadline is February 1 for the Fall semester and October 15 for the Spring semester. There is no summer semester admission. All candidates must complete an admissions application furnished by the Admissions Office (website: http://www.umkc.edu/admissions/umkc-graduate.asp) and have all relevant transcripts from previous institutions forwarded to the University of Missouri-Kansas City, Office of Admissions, 120 Administrative Center, 5100 Rockhill Road, Kansas City, MO. There is a $35 non-refundable fee for new applicants with electronic application ($45 for mailed application). The following items should be mailed directly to the Department of Art and Art History, Graduate Studies, 204 Fine Arts Building, 5100 Rockhill Road, Kansas City, MO:

1. For all media a CD or DVD is required with no more than 20 and no less than 15 images with a hardcopy listing the images title, date, size and media. For graphic design and electronic media a CD or DVD containing work in jpeg/bmp/QT/AVI/Flash formats or printed hardcopy is required.
2. A single-spaced, one-page typed personal statement of purpose describing your reasons for desiring to enter graduate-level study as well as ultimate professional ambitions. In this document please address why you have chosen UMKC, what your work is about and why we should select you.
3. Three letters of recommendation from art professionals or professors.

Applications are reviewed by a committee of Studio Art faculty.

Degree Requirements

A minimum of 36 graduate credit hours is required for the M.A. degree in studio art, including a minimum of six hours of ART 5599, Research and Thesis, and three courses in Art History on the 498 – 5000 level. Additional courses are determined in consultation with the discipline advisor and the supervising thesis committee. Courses are usually three credit hours each and are offered at both the 400 and 5000 levels. Any course counted as part of the required 36-hour minimum must be taken for credit. Students may take no more than 14 hours of 400-level classes (40 percent of a 36-hour program). Any 400 or 5000 level course taken for graduate credit must be completed with a grade of B- (2.7) or better in order to be counted toward the M.A. degree.
Each student’s program of study is designed in consultation with the professor in the primary discipline. There is no general distribution requirement within the studio courses taken, but the student’s choice and mix of classes needs to be approved by the principal professor. Courses in disciplines outside the Art and Art History department may be applied toward the degree with the approval of the student’s principal art advisor.

Thesis Committee

After completion of a 18 to 21-hour minimum, the student selects a thesis committee. Normally, the faculty member in the student’s major studio discipline is requested to act as chair of the thesis committee in addition to two other faculty members who have been asked by the student to serve on the committee. The chair of the thesis committee must be on the graduate faculty. Members of the thesis committee may include other studio faculty, an art historian or a faculty member from another department within the University. Typically, all three members of the thesis committee are faculty with whom the student has had some association. At this stage, the thesis chair consults with the student, who then submits a Master’s Degree Program of Study form to the principal graduate advisor. This form is forwarded to the chair of the Department of Art and Art History, the dean of The College of Arts and Sciences and the Graduate Office.

M.A. Qualifying Exam (Review)

At some appropriate time after the completion of 18 to 21 hours toward the M.A. degree and before the beginning of the thesis, a review of the student’s studio work by the chosen thesis committee is held. The purpose of this review is to determine the readiness of the student to engage in thesis-level work. For this review, the candidate presents a body of studio work representing both their present accomplishments and the potential for a thesis project. The student will also submit a prospectus for the intended thesis work. In an oral discussion with the thesis committee, student will explain the concept of the thesis and how this work will contribute to their continued art production. The committee will ask questions of the student and assess the progress of the work in order to determine whether the student should be allowed to advance to the final hours of class work leading to thesis. The thesis committee must approve the research plan and has a right to refuse it if the student does not have an available thesis project. If the prospectus is refused, the committee will make suggestions on how to improve the thesis proposal and a second review will be scheduled at a future date. Additional coursework may be recommended.

Thesis Procedure

The student plans a body of work to pursue a clearly identified artistic concept in consultation with his/her committee. An Appointment of Thesis Committee form with the names of the student’s committee members is filled out by the student in consultation with the departmental principal graduate studio adviser and sent to the associate dean for graduate studies of the College of Arts and Sciences as well as to the Office of Graduate Faculties and Research. If, at any point during the thesis process, the student’s committee is changed, an updated version of the form must be resubmitted. It is the responsibility of students to notify the principal graduate studio advisor of any changes in the composition of their committee, allowing the proper forms to be corrected.

At the beginning of the final semester of the student’s program of study, he or she must fill out Intent to Graduate form, available online and from the Office of Registration and Records. This form enables the student to be placed on the graduation roll and on a mailing list to receive materials concerning graduation and other important information. If, for some reason, the student does not graduate that semester, he or she is required to file another form the subsequent semester. The deadline for the Intent to
Graduate form is listed in the front part of each semester’s catalog of courses.

Review of Thesis  
(Defense/Public Manifestation of Work)

Upon completion of the thesis body of work, the student presents the work to his or thesis committee for final review and approval. This review must be in the form of a public exhibit or performance. This exhibit can be held in the UMKC Gallery of Art or any other public location within the Kansas City metropolitan area.

SUMMARY OF FORMS
1. Master’s Degree Program of Study – filled out by the student and the graduate advisor/principal advisor in the department.
2. Recommendation for Appointment of Advisor or Supervisor/Examination Committee form – filled out by the student and the graduate adviser in the department.
3. Report of Results of Examination for Master’s Degree Students Form – filled out by the chair of the thesis committee and mailed to the Office of Graduate Records.
4. Intent to Graduate – filled out by the student at the Records Office in the Administrative Center (no faculty signature required)
5. Thesis Review/Examination – filled out by the chair of the thesis committee and mailed to the Office of Graduate Records.
Black Studies
Black Studies Office
5305 Holmes Road
Phn: (816) 235-2636
Fax: (816) 235-5596
umkcblackstudies@umkc.edu
http://cas.umkc.edu/blackstudies

Mailing Address:
5100 Rockhill Road
Kansas City, MO 64110

Program Director:
Dr. Clovis E. Semmes

Professor:
Dr. Clovis E. Semmes (Director)

Associate Professor:
Dr. Jacqueline E. Wood

Visiting Professor:
Dr. Veronica N. Wilson-Tagoe

Administrative Assistant:
LaDonna McCullough

Program Description

Minor in Black Studies
Student Learning Outcomes
Core Program Requirements
Undergraduate Black Studies (BLKS) Courses
Graduate Focus in Black Studies
Graduate Black Studies (BLKS) Courses

Black Studies Program Description

The UMKC Black Studies Program is an academic unit that holistically investigates the experience, contributions and condition of African-descent peoples in the formation and evolution of American society and culture. Where relevant to these objectives, our focus extends to an examination of the active role of Africa and the African Diaspora in global society and human culture. The Black Studies Program - through both a social scientific and a humanistic orientation - provides a unique and rich approach to accessing and comprehending the human experience.

The Black Studies Program provides students with an instructive and important body of knowledge and critical skill sets that will help them to successfully pursue diverse employment opportunities or additional graduate or professional training. It also provides a strong foundation to those who might want to become scholars in the field.
The Program currently offers undergraduate courses that can lead to a minor in Black Studies and graduate courses, which can be used to inform and enrich all graduate and professional training at UMKC, including an existing Black Studies focus in the

**Master of Liberal Studies Program.**
The Black Studies Program is moving toward establishing an emphasis area under the Bachelor of Liberal Arts (B.L.A.) Program and a graduate certificate.

**Minor in Black Studies**
Students who elect to earn a minor in Black Studies must take at least 18 credit hours of prescribed coursework. Nine hours must be at the 300 or 400 levels, and a minimum of nine hours must be earned at UMKC.

Four core courses are required for the minor. They are BLKS 201, BLKS 302, BLKS 403WI and BLKS 404.

To complete the minor, students must take six (6) hours of elective credit under Black Studies. At least one course must be from a Literature and Culture category and one course from an Institutions and Social Process category. Students should consult with the Director to determine which courses meet these various elective categories. Courses approved for the minor will appear under the Black Studies prefix (BLKS).

Students may also complete their elective requirements by taking three (3) to six (6) credits of BLKS 490 Directed Study or BLKS 480 Special Topics. Directed Study involves establishing an individual research and learning project with a core faculty person in Black Studies. The student and faculty person will determine beforehand if the project meets the Literature and Culture requirement or the Institutions and Social Process requirement for the minor in Black Studies. Special Topics (BLKS 480) are courses that may be offered from time to time to explore important issues in Black Studies that are not currently available in the curriculum. These courses will either be designated as meeting the Literature and Culture requirement or the Institutions and Social Process requirement.

**Undergraduate Student Learning Outcomes: Black Studies Program**
1. Acquire a holistic understanding of the experiences, contributions, and condition of African-descent peoples in the evolution and formation of American society and culture.
2. Develop a basic understanding of the active role of Africa and the African Diaspora in global society and human culture.
3. Learn to employ Black Studies as a critical tool to understand the human experience generally.
4. Gain exposure to the breath and depth of perspectives that give respect and voice to the Black experience.
5. Learn to employ social science and humanistic approaches to examine human society and culture.
6. Develop advanced skills in critical thinking, written and oral communication, research, analysis, theory building, multicultural understanding, and global awareness.

The core Black Studies Courses are:

**BLKS 201: Global Systems and the Origins of Black American Culture and Institutions (3 Credit Hours)**
This multi-disciplinary course examines global capitalism, European contact with Africa, the development of the African Diaspora, and the origins of Black American institutions and culture.
Applying a Black Studies perspective, the course explores such themes as cultural and gendered oppression, institutional destabilization, economic dislocation, liberation struggles, and creative impulses and aesthetics. *(This course replaces Introduction to African American Studies and also meets the general*
education requirement for a course that focuses on cultural perspectives of an interdependent global environment.)

**BLKS 302: Conceptual and Theoretical Foundations in African American Studies (3 Credit Hours)**
This course will provide an in-depth examination of the theoretical and conceptual parameters of African American Studies. We will study the evolution of the field, key scholars and creative intellectuals, and seminal categories of thought. *(This course also meets the general education requirements for the social sciences.)*

**BLKS 403WI: Writing for African American Studies (3 Credit Hours)**
This course instructs students in how to produce advanced knowledge in the field of African American Studies. It provides training in the construction of quality research papers for graduate, scholarly, and professional work and exposes students to a wide array of scholarly journals, databases, and authoritative resources in African American studies. Each time the course is taught, students will develop their research around a specific topic defined by the instructor. *(This course is approved as a writing intensive course.)*

**BLKS 404 Research Seminar (3 Credit Hours)**
This course introduces the logic, theory, and techniques of empirical research and applies them to African American Studies. It exposes students to a variety of research approaches in order to examine their utility for producing knowledge within the field. *(This course also meets the general education requirements for social sciences.)*

**Graduate Focus in Black Studies**
Currently, Black Studies is a designated area of concentration under the Master of Liberal Studies Program. Consequently, the Program offers a complement of graduate courses that satisfy this focus. Student should register under the Black Studies prefix, BLKS.
To learn more about the Black Studies concentration within the Master of Arts in Liberal Studies Program, please click here.

**Graduate Student Learning Outcomes: Black Studies Program**
The curriculum in Black Studies provides critical skill sets in written and oral communication, research, analysis, theory building, multicultural understanding and global awareness. We are committed to general education and professional development, as well as the development of scholars in the field.
Chemistry
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Department Chair:
Kathleen V. Kilway

Professors Emeriti:
John W. Connolly, Wesley Dale, Henry A. Droll, Peter Groner, Eckhard W. Hellmuth, Peter F. Lott,
Layton L. McCoy, Timothy F. Thomas, Charles J. Wurrey (Curator's Distinguished Teaching Professor Emeritus and James C. Olson's Professor of Chemistry)

Curators' Professors:
Jerry R. Dias (chemistry), James R. Durig (chemistry and geosciences), Y.C. Jerry Jean (chemistry and physics), Kathleen V. Kilway (chemistry and chair)

Professors:
Keith R. Buszek, Andrew J. Holder, Zhonghua Peng (principal graduate adviser), Thomas C. Sandreczki (associate dean, arts and sciences), Kenneth S. Schmitz

Associate Professors:
J. David Van Horn

Assistant Professors:
Xiaobo Chen, Ekaterina N. Kadnikova, Nathan A. Oyler

Assistant Teaching Professors:
Paul Barron (coordinator: general chemistry laboratories and undergraduate adviser), Andrea Drew Gouve (coordinator: organic chemistry laboratories and undergraduate adviser), Todor K. Gouve (program director)

- Department Description
Research Facilities
Undergraduate Programs

- Bachelor of Science: Chemistry
- Student Learning Outcomes
Program Requirements
Bachelor of Arts: Chemistry
• Student Learning Outcomes

Program Requirements
Minor in Chemistry

Undergraduate Chemistry (CHEM) Courses

Graduate Programs
• Master of Science: Chemistry
• Student Learning Outcomes

Admission Requirements

Research M.S. Program

Non-Thesis M.S. Program

Research Facilities

Emphasis Areas

Graduate Chemistry (CHEM) Courses

Chemistry Department Description

The Department of Chemistry offers programs of study leading to the bachelor of arts, bachelor of science and master of science degrees, and participates in UMKC’s Interdisciplinary Ph.D. program. To the extent that each program is flexible (see degree requirements), it is possible to specialize at the graduate level in the areas of analytical, inorganic, organic, physical or polymer chemistry.

Chemistry Undergraduate Programs

Career Implication of the Bachelor's Degree

The Department of Chemistry offers two bachelor of science degree programs. Both require a minimum of 43 credit hours of chemistry courses; they are designed for those who want to work in the field of chemistry. The American Chemical Society approved degree is based on the guidelines established by the American Chemical Society (ACS) and specifically requires Organic and Inorganic Synthesis (CHEM 382) and a Biochemistry course (either CHEM 367 or LS BIOCHEM numbered 341 or higher). Many of those receiving the bachelor of science degree have gone on to graduate work, professional schools, and advanced degrees. Others have gone directly into the chemical industry (laboratory assistants). In contrast, the bachelor of arts degree is more flexible because it requires only a minimum of 26 credit hours of chemistry. The bachelor of arts student is shown a minimum of what chemistry is about. By choosing suitable courses, this degree prepares the individual with the chemical background for work in other areas. Examples include technical librarian, medical technologist, business administration, public health, and sales or advertising in the chemical industry. The majority of students pursuing the bachelor of arts in chemistry do so in preparation for professional schools, such as medicine, dentistry, and pharmacy. The bachelor of arts can also provide a student with a background in chemistry equivalent to that of a bachelor of science, but tailored to the individual's desires.

Teacher Certification in Chemistry

Certification as a middle school (grades 5-9) or secondary (grades 9-12) chemistry teacher in either Kansas or Missouri requires that a student complete specific requirements in biology, chemistry, environmental science, geology, physics and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

Admission Requirements

Other than University of Missouri admission requirements, there are no special prerequisites for beginning either the bachelor of arts or the bachelor of science program. High-school chemistry and a
good working knowledge of algebra and arithmetic are desirable for entering the bachelor of science program. It should be noted that much of the bachelor of science program, and some of the bachelor of arts program, are highly structured in the order which chemistry courses must be taken. It is assumed that transfer students, Associates degree students, and junior college students should have begun the appropriate course sequence in their previous schools. All students are required to consult with the Chemistry Undergraduate Adviser before their registration at UMKC.

Advising
Those seeking either a bachelor of science or a bachelor of arts degree should see the Chemistry Department's principal undergraduate adviser or the department chair at the earliest possible time. Students who major in Chemistry must see the Undergraduate Adviser each semester prior to enrolling in courses.

Honors Program
Students with outstanding records of achievement may be eligible to enroll in special honors courses. Such courses are designated by the letter H preceding the course number, or special arrangements can be made with instructors of regular courses. Students enrolled in the special courses should consult with their faculty adviser to arrange for optimal degree planning.

Prerequisites and Corequisites
A minimum grade of C- or higher is required for all prerequisite and corequisite courses for all students taking courses within the Department of Chemistry. In exceptional cases, students may receive written consent from the Chemistry Undergraduate Adviser to waive this requirement. Students must be concurrently enrolled in all corequisite courses. In exceptional cases, students may receive written consent of the Curriculum Committee by obtaining a petition form from the Department to waive this requirement.

Graduate Study in Chemistry
The Chemistry Department offers the master of science degree, with an emphasis in analytical, inorganic, organic, physical, or polymer chemistry.

Doctor of philosophy (Ph.D.) programs at UMKC are interdisciplinary. Students desiring to study at the doctoral level in the discipline of chemistry (as the coordinating unit) must apply to the School of Graduate Studies. Detailed information on the general and discipline-specific admission requirements for the doctoral degree may be found in the General Graduate Academic Regulations and Information section of this catalog.

Students pursuing an Interdisciplinary Ph.D. degree, who have selected chemistry as one of their disciplines, should consult the School of Graduate Studies section of this catalog for degree requirements, and other academic regulations applicable to their degree programs.

General Nature of the Graduate Program
Both the master of science degree and interdisciplinary Ph.D. degree with chemistry as the coordinating discipline have the basic aim of training students to work independently in chemistry. Both programs train the student through a broad but flexible base of coursework for further education, but the interdisciplinary Ph.D. places a greater emphasis on original research. There are two programs or tracks that lead to the master of science in chemistry: the research and the non-thesis tracks. The interdisciplinary Ph.D. with chemistry as the coordinating unit is only
research track. (For further information on the Interdisciplinary Ph.D. Program, see the chemistry discipline within the School of Graduate Studies section of this catalog.)

Research Facilities

Major Instrumentation:
- Varian Inova 400 MHz NMR spectrometer.
- Bruker 250 MHz NMR spectrometer with solid state probe.
- IBM 200 Electron Spin Resonance Spectrometer.
- AA and ICP-AA spectrophotometers.
- CARY-1 UV-Visible dual beam spectrophotometer.
- Cambridge Structural Database Subscription (Van Horn).
- Raman and Infrared Spectroscopy Lab (Durig).
- Positron Annihilation and Gamma-ray Spectroscopy Lab (Jean).
- ABI Pioneer peptide synthesizer.
- Sprint BioCad liquid chromatography system.
- Finnigan MAT Double Focusing mass spectrometer.

Research Instrumentation:
- Ocean Optics UV-Vis-NIR and other UV-Visible spectrophotometers.
- Metrohm Titrando system with "PC Control" software.
- BAS Epsilon electrochemistry apparatus (Peng).
- Shimadzu HPLC (Van Horn).
- Shimadzu RF-5301PC Fluorescence spectrophotometer.
- Perkin Elmer Polarimeter (Buszek).

Support Facilities:
- Computer and Electronics Shop.
- Chemical Stores.

On Campus Resources:
- Jasco J-710 Circular Dichroism Spectropolarimeter (School of Biological Sciences).
- Varian 600 MHz NMR Spectrometer (School of Biological Sciences, Laity).
- ESI-mass spectrometer and Triple-Quad LC-ESI MS with nanospray adaptor (School of Pharmaceutical Sciences).
- Machine Shop (Department of Physics).

Computer facilities include UMKC's Academic Research servers using HP's Itanium technology and numerous personal computers located in the Spencer Chemistry Building and Flarsheim Hall for teaching and research purposes. A computational research laboratory is also housed in the department with a number of high-speed workstations and modern software.

Bachelor of Arts in Chemistry

1. Students graduating with a baccalaureate degree in chemistry should be proficient in the basic skills of chemistry. They will:
   - Have a functional knowledge of all the basic areas of chemistry including analytical, organic, physical, inorganic and biochemistry.
   - Be able to integrate their knowledge in these areas and use their critical thinking skills in order to become problem solvers.
   - Be proficient in chemistry laboratories, especially with respect to:
     - Following and understanding general laboratory practice guidelines, especially proper laboratory safety.
     - Performing chemical analyses.
Performing simple chemical synthesis.  
Understanding and using modern chemical instrumentation.  
- Be able to articulate clearly scientific information, both in written and oral forms.  
- Be able to use effectively the scientific literature.

2. Students graduating with a baccalaureate degree in chemistry will be prepared for entry into professional schools (e.g., medical, dental, pharmaceutical, or veterinary), graduate programs, or chemical industries.

Degree Requirements  
The minimum departmental requirements for this degree are:

The equivalent of one year of general chemistry (CHEM 211, CHEM 212R and CHEM 212LR).
1. PHYSICS 210, PHYSICS 220 and MATH 110 (or math exception based on high school math courses).
2. CHEM 341WI (writing intensive, for which the WEPT is an enforced prerequisite.)
3. Any combination of 300-level and 400-level chemistry courses (exceptions noted below; see 5, 6, 7 and 11) to bring the total credit hours to 26. Certain biochemistry courses (offered by the School of Biological Sciences) also may be included in this total. Please confer with the principal undergraduate adviser.
4. No more than three hours total in
5. CHEM 395, CHEM 399, CHEM 495 and CHEM 499 may be used in meeting the major course requirements.
6. CHEM 320 and CHEM 321 may not both be counted toward the required number of credit hours. (CHEM 321 + CHEM 322R and CHEM 320 + CHEM 322R are both acceptable combinations for meeting, in part, the bachelor of arts departmental course requirements, although the CHEM 320 + CHEM 322R combination is not preferred. The combinations CHEM 320 + CHEM 321 and CHEM 320 + CHEM 321 + CHEM 322R are not acceptable.)
7. Similarly, either CHEM 330-or- the combination CHEM 431 + CHEM 432 is acceptable, but the combination CHEM 330 + CHEM 431 + CHEM 432 is not acceptable.
8. All majors must receive a C- or better in all chemistry courses with an overall chemistry GPA of 2.0 for graduation.
9. A minimum grade of C- is required for all prerequisite courses (including physics and mathematics courses). In exceptional cases, students may receive written consent of the instructor and the Chemistry Undergraduate Adviser to waive this requirement.
10. Each chemistry major must be advised by the Chemistry Undergraduate Adviser every semester.
11. In order to meet The College's residency requirement for a major in Chemistry, a minimum of 12 credit hours must be completed in the Department of Chemistry at UMKC, of which 9 of the 12 hours must be at the 300/400 level. While credit as a result of advanced placement (AP) scores and courses in Biochemistry (LS-BIOC 341, LS-BIOC 365, or LS-BIOC 366) may be used towards meeting major requirements, they do not count towards the residency requirement.

Total Chemistry Credit Hours: 26 (or more)
Bachelor of Science in Chemistry
1. Students graduating with a baccalaureate degree in chemistry should be proficient in the basic skills of chemistry. They will:
   - Have a functional knowledge of all the basic areas of chemistry including analytical, organic, physical, inorganic and biochemistry.
   - Be able to integrate their knowledge in these areas and use their critical thinking skills in order to become problem solvers.
   - Be proficient in chemistry laboratories, especially with respect to:
     - Following and understanding general laboratory practice guidelines, especially proper laboratory safety.
     - Performing chemical analyses.
     - Performing simple chemical synthesis.
     - Understanding and using modern chemical instrumentation.
   - Be able to articulate clearly scientific information, both in written and oral forms.
   - Be able to use effectively the scientific literature.
2. Students graduating with a baccalaureate degree in chemistry will be prepared for entry into professional schools (e.g., medical, dental, pharmaceutical, or veterinary), graduate programs, or chemical industries.

Degree Requirements
The Chemistry Department bachelor of science degree is approved by the American Chemical Society (ACS). There are two types of bachelor of science degrees. Both require a minimum of 43 credit hours in chemistry. An ACS-approved B.S. degree requires taking 2 credit hours of CHEM 382, and 3 credit hours of CHEM 367 or LS-BIOC 341 or higher*. The other type of B.S. degree does not require CHEM 382 or CHEM 367, or LS-BIOC 341. This program includes:

1. General chemistry (CHEM 211, CHEM 211L, CHEM 212R, CHEM 212LR).
3. Analytical chemistry (CHEM 341, CHEM 442R).
4. Physical chemistry (CHEM 431, CHEM 437WI [writing intensive for which the WEPT is an enforced prerequisite], CHEM 432).
5. Chemical literature (CHEM 410).
7. A biochemistry course* (CHEM 367) or (LS-BIOC 341 or higher).
8. A minimum of 3 credit hours of advanced work in either chemistry (courses numbered 400 or higher), mathematics (courses other than MATH 250 that have MATH 220 as a prerequisite), biology (courses numbered 300 or higher), or physics (courses numbered 300 or higher).
9. MATH 210, MATH 220, MATH 250.
10. One year of engineering physics. PHYSICS 240 and PHYSICS 250.
11. The total credit hours of laboratory time in the required courses and any advanced elective laboratories must be at least 12. No more than 3 hours of CHEM 495 and CHEM 499 may be used in meeting the major course requirements.
12. CHEM 499 cannot be used to meet both laboratory requirements and the 3 hours of advanced work.
13. All majors must receive a C- or better in all chemistry courses with an overall chemistry GPA of 2.0 for graduation.
14. A minimum grade of C- is required for all prerequisite courses (including physics and mathematics courses). In exceptional cases, students may receive written consent by submitting a petition to the Chemistry Undergraduate Curriculum Committee which has to be approved to waive this requirement.
15. Each chemistry major must be advised by the Chemistry Undergraduate Adviser every semester.
16. In order to meet The College's residency requirement for a major in Chemistry, a minimum of 12 credit hours must be completed in the Department of Chemistry at UMKC, of which 9 out of the 12 hours must be at the 300/400 level. While credit as a result of advanced placement (AP) scores and
courses in Biochemistry (LS-BIOC 341, LS-BIOC 365, or LS-BIOC 366) may be used towards meeting major requirements, they do not count towards the residency requirement.

Suggested Plan of Study
Because plans of study are dependent on the students' backgrounds and preparation, each student admitted should develop a plan of study in conjunction with an adviser in the department. General chemistry, organic chemistry, calculus and physics should be completed by the end of the second year. Physical chemistry should be taken in the third year. Students should note that although a fair amount of flexibility is available for setting up a plan of study, the structured nature of prerequisites and corequisites in chemistry, physics, and mathematics necessitates very careful organization of any program.

For students starting at UMKC as freshmen, the department recommends the following plan of study to fulfill the major requirements for a bachelor of science degree in chemistry:

<table>
<thead>
<tr>
<th>Chemistry Courses</th>
<th>Courses in Other Disciplines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
</tr>
<tr>
<td>CHEM 211 (4)</td>
<td>MATH 210 (4)</td>
</tr>
<tr>
<td>CHEM 211L (1)</td>
<td>MATH 220 (4)</td>
</tr>
<tr>
<td>CHEM 212R (4)</td>
<td></td>
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<tr>
<td>CHEM 212LR (1)</td>
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<tr>
<td>Sophomore</td>
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<tr>
<td>CHEM 321 (3)</td>
<td>MATH 250 (4)</td>
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<tr>
<td>CHEM 321L (1)</td>
<td>PHYSICS 240 (5)</td>
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<tr>
<td>CHEM 322R (3)</td>
<td>PHYSICS 250 (5)</td>
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<tr>
<td>CHEM 322L (1)</td>
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<tr>
<td>Junior</td>
<td></td>
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<tr>
<td>CHEM 341 (4)</td>
<td>4XX+ in CHEM (3)</td>
</tr>
<tr>
<td>CHEM 431 (3)</td>
<td>-or-</td>
</tr>
<tr>
<td>CHEM 432 (3)</td>
<td>3XX+ in BIOL,</td>
</tr>
<tr>
<td>CHEM 442R (3)</td>
<td>PHYSICS -or-</td>
</tr>
<tr>
<td>CHEM 437WI (3)</td>
<td>MATH (3)</td>
</tr>
<tr>
<td>Senior</td>
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<tr>
<td>CHEM 410 (1)</td>
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<tr>
<td>CHEM 451R (3)</td>
<td></td>
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<tr>
<td>CHEM 367* (3)</td>
<td>-or- LS-BIOC 341* (3)</td>
</tr>
<tr>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>CHEM 3XX** -or- 4XX** (3)</td>
<td></td>
</tr>
<tr>
<td>CHEM 382* (2)</td>
<td>-or-</td>
</tr>
<tr>
<td>CHEM 499** (2)</td>
<td></td>
</tr>
</tbody>
</table>

Total Chemistry Credit Hours: 43

*Required for ACS-approved degree.
**For non-ACS-approved degree.

Minor in Chemistry
Students may elect to obtain a minor in chemistry in conjunction with a major in another academic discipline. The minimum departmental requirements are 18 credit hours of chemistry with at least 9 of these hours from courses at the 300 or 400 level. To meet The College's residency requirement for a minor in Chemistry, students must complete 9 credit hours from the Department of Chemistry at UMKC, and 6 of those 9 hours must be courses at the 300 or 400 level. While credit as a result of advanced placement (AP) scores and courses in Biochemistry (LS-BIOC 341, LS-BIOC 365, or LS-BIOC 366) may be used towards meeting minor requirements, they do not count towards meeting the
residency requirement. In addition, the minor courses must be selected from more than one area of chemistry and a minimum grade of a C- is required for all minor and prerequisite courses.

**Master of Science: Chemistry**

The Department of Chemistry offers two master of science degrees. The non-thesis M.S. program has an emphasis on coursework, while the thesis-based degree has an emphasis on both coursework and original research. Graduating chemistry M.S. students will be exposed to the most recent advances in chemical sciences. In addition, thesis-based M.S. students will experience the excitement of performing guided research.

The following student learning outcomes are expected for our educational process:

**Non-Thesis Master of Science in Chemistry**

At the end of their studies, students will:

- Have an extensive knowledge of the basic areas of chemistry (inorganic, organic, physical, analytical, and biochemistry).
- Be familiar with the recent advances in the basic areas of chemistry.
- Have the ability to communicate scientific information clearly and precisely, both written and oral forms.
- Have the ability to read, understand, and use scientific literature.
- Have had the opportunity to work with others as part of a team to solve scientific problems.

**Thesis-Based Master of Science in Chemistry**

At the end of their studies, students will:

- Have an extensive knowledge of the basic areas of chemistry (inorganic, organic, physical, analytical, and biochemistry) with an extensive knowledge in at least one area.
- Have done extensive research through a project.
- Have the ability to recognize scientific problems, formulate questions and answers, and carry out strategies for solving them.
- Have the ability to read, understand, and use scientific literature.
- Have the ability to communicate scientific information clearly and precisely, both written and oral forms.
- Have some understanding of the principles and applications of modern instrumentation, computation, experimental design, and data analysis.

**Requirements for Admission**

Applicants should have the equivalent of an American Chemical Society (ACS)-approved bachelor's degree in chemistry. This degree includes the equivalent of: one year of general chemistry, quantitative analysis, one year of organic chemistry, one year of physical chemistry, physical chemistry laboratory, instrumental analysis, inorganic chemistry, one year of physics, and three semesters of calculus, and the ACS-recommended distribution of advanced courses and course credits. (For example, see UMKC's B.S. program in chemistry in the undergraduate catalog.) Applicants should take particular note of the physical chemistry requirement. They may be admitted as provisional students if they have a limited number of undergraduate deficiencies. At the time that admission is offered, applicants will be notified of any requirements to be met for reclassification as fully admitted. Undergraduate courses included in these requirements must be completed with grades of C- or higher.

Applications are only accepted through the online system, and include:

1. Official, confidentially transmitted transcripts.
2. Statement of purpose.
3. Two confidentially transmitted letters of recommendation (academic and/or professional).
4. Official Graduate Record Exam (General Test) score, less than six (6) years old.
5. English language proficiency requirement. An official Graduate Record Exam score (general test) is required as part of the application to the program. The GRE score will be evaluated as part of the entire application. Applicants from foreign countries, who have an official language other than English, must achieve scores of at least 550 (paper-based), 213 (computer-based), or 79 (internet-based) on the Test of English as a Foreign Language (TOEFL) to be considered for admission.

Placement Examinations
Incoming students must take placement examinations in analytical, inorganic, organic, and physical chemistry. Placement examinations are typically administered the week before the first week of classes of the fall and spring semesters. Students scoring below the 50th percentile in the organic and/or physical chemistry exams are required to enroll in CHEM 5520R and/or CHEM 5530A/CHEM 5530B, respectively. Enrollment in other graduate organic or physical chemistry courses is not permitted until CHEM 5520R or CHEM 5530A/CHEM 5530B, respectively, is (are) successfully completed. CHEM 5530A/CHEM 5530B is currently offered concurrently with CHEM 431 or CHEM 432. A student is required to take either CHEM 5530A/CHEM 431 or CHEM 5530B/CHEM 432 or both, depending on his/her performances in the various sub-disciplines of the physical chemistry placement exam. Should a student be required to take both CHEM 5530A/CHEM 431 and CHEM 5530B/CHEM 432, the average grade of the two CHEM 5530 courses will be considered for the fulfillment of the physical chemistry deficiency. Two grades of C+ (2.3 out of 4.0) or lower, or one grade of less than C- (1.7 out of 4.0) in CHEM 5520R or CHEM 5530, will result in termination from the degree program. These courses may not be counted toward the M.S. coursework requirements listed below. Students must complete all additional coursework required as a result of the placement exams by the end of their first three regular semesters.

Graduate Program Committee
Upon admission to M.S. program in chemistry, students will be advised by the department's principal graduate adviser, acting on behalf of the chemistry graduate program committee. Based on the committee's evaluation of the students' transcripts and placement exam scores, the principal graduate adviser will inform students of any deficiencies and how they should be removed. The principal graduate adviser also will advise students on course curriculum. For the thesis degree, the curriculum advising is performed by the research adviser (once they have been selected). The graduate program committee serves as the supervisory committee for non-thesis M.S. students.

Seminar Attendance
Full-time M.S. students are required to attend all regularly scheduled and special departmental seminars and colloquia. Part-time students are also required to attend these seminars but may petition the Chair of the Department of Chemistry to waive this requirement all but one semester. Such students will be required either to attend and participate fully during one semester, including the presentation of a one-hour seminar (see details below), or to present two one-hour seminars in lieu of full participation.

Minimum Requirements for Master of Science Degree
In addition to the requirements listed here, all M.S. students are subject to the all general M.S. requirements of the University. See the School of Graduate Studies section of this catalog for a complete listing.

Time Constraints and Financial Assistance
The non-thesis M.S. degree program is intended primarily for students currently employed in a chemically related industry. Full-time, non-thesis M.S. students are required to complete all of the requirements for their degree within four years. Part-time non-thesis M.S. students are required to
complete all requirements for their degree within seven years. Non-thesis M.S. students are not eligible for financial support from the Department of Chemistry.

**Coursework**
The emphasis of this program is coursework. Non-thesis M.S. students are required to complete a minimum of 31 credit hours of graduate-level coursework. Non-thesis M.S. Students are required to complete:

1. Three credit hours must be from Organic Chemistry courses: CHEM 5521R or CHEM 5522.
2. Three credit hours from Physical Chemistry courses: CHEM 5531, CHEM 5532, CHEM 5533, CHEM 5534, or CHEM 5535.
3. Nine additional credit hours from graduate level chemistry courses numbered CHEM 5521 - CHEM 5589, excepting CHEM 5520, CHEM 5530 and CHEM 5540.
4. One credit hour seminar presentation (CHEM 5611).
5. The remaining 15 credit hours, among which up to 6 credit hours of CHEM 5590, CHEM 5599, or CHEM 5699 may be applied, may be taken from courses approved by the graduate program committee.

Students who receive a grade of C+ (2.3) or less in more than two courses applicable to the M.S. program, or who have a cumulative grade-point average of less than 3.0 on courses applicable toward the M.S. degree after completing 18 or more credit hours of such courses, will be terminated from the degree program. Grades received for CHEM 5590 and any undergraduate-level courses are not included in the minimum GPA calculation.

Students who have received a grade of B- (2.7) or better in graduate chemistry coursework taken as part of a degree program at another institution may have up to 6 credit hours of equivalent required coursework waived upon approval of a majority of the graduate program committee. A written request for this approval must be submitted within one year of full admission to the M.S. program.

**Seminars**
Students must present a one-hour literature seminar based on a topic of their choice which has been approved by the Department of Chemistry Chair (or a designee). Students must register for CHEM 5611 the semester of this presentation. This seminar will include an exhaustive review of the pertinent literature and discussion of both present and future implications of research in this area. An abstract is to be posted and distributed one week prior to the presentation date.

**Time Constraints and Financial Assistance**
Full-time thesis M.S. students are required to complete all of the requirements for their degree within four years. In compelling circumstances, and on the written recommendation of a majority of the Supervisory Committee, a single extension for up to one year may be requested for approval by the Chair of the Department of Chemistry. Part-time thesis M.S. students are required to complete all of their requirements for their degree within seven years.

Full-time thesis M.S. students may receive financial support from the Department of Chemistry for a maximum of two-and-one-half years. Students from countries having an official language other than English, and who wish to be supported as GTAs, must take the SPEAK test before the end of their first semester on campus if necessary. Part-time thesis M.S. students are not eligible for financial support from the Department of Chemistry.

**Research Adviser and Supervisory Committee**
Full-time students must select a research adviser from the graduate faculty of the Department of Chemistry and a supervisory committee by the end of their first regular (i.e., fall or spring) semester on campus. Part-time students must select their research adviser and supervisory committee by the end of
their third year after enrollment in their first course as an M.S. student at UMKC.

The research adviser becomes the chairperson of the supervisory committee, which includes at least two additional members of the graduate faculty. Students and their supervisory committee shall plan a program of study which, when met, will qualify students for the M.S. degree. This program of study must be approved by the supervisory committee, the department chair, and the principal graduate adviser prior to the completion of 15 hours of coursework applicable to the degree. The supervisory committee is responsible for conducting the final thesis examination for students in the thesis program.

Coursework
The emphasis of this program is research. A minimum of 31 credit hours (including research and thesis) is required. Full-time, research M.S. students should be able to complete the formal coursework requirement no later than the end of their second year. Thesis M.S. students are required to complete:

1. Three credit hours in one of the following Physical Chemistry courses: CHEM 5531, CHEM 5532, CHEM 5533, CHEM 5534, or CHEM 5535.
2. Three credit hours in Organic Chemistry: CHEM 5521R or CHEM 5522.
3. Six additional credit hours from graduate level chemistry courses numbered CHEM 5521 - CHEM 5589, excepting CHEM 5520, CHEM 5530, and CHEM 5540.
4. Two additional graduate-level courses for a minimum of 6 credit hours.
5. One credit hour seminar presentation (CHEM 5611).
6. In addition to the formal course work requirements, a minimum of 6 credit hours of research and thesis (CHEM 5599) work must be done under the direction of the student's research adviser.
7. Up to 6 credit hours of directed studies (CHEM 5590) may be applied toward the degree requirements. Additional coursework may be substituted for part or all of CHEM 5590 on approval of the student's supervisory committee.

The selected courses must be approved by the student's supervisory committee. Students who receive a grade of C+ (2.3) or lower in more than two courses applicable to the M.S. program or who have a GPA lower than 3.0 on courses (not including CHEM 5590, CHEM 5599 or any undergraduate courses) applicable toward the M.S. degree after completing 18 or more credit hours of such courses, will be terminated from the degree program.

Students, who have received a grade of B- (2.7) or better in graduate coursework taken as part of a degree program at another institution, may transfer up to 6 credit hours of this work on approval of a majority of the student's committee. A written request for this approval must be submitted within one year of full admission to the program.

Seminar Presentation (CHEM 5611)
Students must present a one-hour seminar based on their thesis research project. This seminar will include an exhaustive review of the literature pertinent to their project, a description of the objectives, the proposed methodology, and the significance of this research. Students must register for CHEM 5611 and present this seminar during the semester following selection of their research adviser and committee.

Thesis Defense
The candidate's thesis must be prepared following all of the guidelines required by the UMKC School of Graduate Studies. All supervisory committee members must receive a final draft of the thesis for approval of form and content at least two weeks before submission to the Dean of the School of Graduate Studies. Candidates should submit preliminary drafts of their thesis to their supervisory committee well in advance of this deadline. After the thesis is certified for acceptance by the Dean of the School of Graduate Studies, the student must present an oral defense of his/her research in the form of a thesis seminar. The
supervisory committee will make a final determination of the acceptability of the thesis immediately following this presentation. Only minor changes may be made to the thesis at this point.

**Analytical**
Research in analytical chemistry is focused on:
- Gas chromatography.
- Mass spectrometry.
- Fourier transform infrared, Raman and positron annihilation spectroscopy techniques.

**Inorganic**
Research in inorganic chemistry is focused on:
- Bioinorganic chemistry, including synthetic and mechanistic coordination chemistry of essential and toxic metal ions.
- Inorganic reactions including thermodynamic and kinetic aspects of metal-ligand interactions in aqueous and other media.
- Correlation of electronic structure calculations with experimental measurements.
- Bioinorganic chemistry of the heaviest metals.
- Development of new synthetic methodology to novel organic-inorganic hybrids.
- Polymer-silicate composites.

**Organic**
Research in organic chemistry is focused on:
- Synthesis and molecular architecture of bile acids and benzenoid hydrocarbons.
- Synthesis and physical studies of novel host-guest systems.
- Total synthesis of complex natural products.
- Development of new synthetic methods.
- Development of new scaffolds and reagents for combinatorial chemistry.
- Medicinal chemistry.
- Chemical biology.
- Synthesis and elucidation of natural products and antitumor agents.
- Biomimetic materials chemistry of cyclodextrin derivatives.
- Immobilized enzymes for "green" enantioselective catalysis.

**Physical**
Research in physical chemistry is focused on:
- Using infrared and Raman spectroscopy to determine molecular conformations.
- Developing infrared spectroscopic techniques for the analysis of environmental pollutants.
- Using *ab initio* and semiempirical computational methods to predict chemical and physical properties of interesting chemical species.
- Quantitative structure activity relationships.
- Physical and biological properties of dental materials.
- Characterization of electronic and free-volume properties in materials.
- Positron and positronium chemistry.
- Organic conductivity and superconductivity.
- Brownian dynamic simulation.
- Developing and using solid-state NMR methods for structural and dynamical studies of proteins and peptides.
Polymer
Research in polymer chemistry is focused on:
- Synthesis of novel organic and organometallic polymers.
- Novel dendrimers and their applications.
- Core-shell nanoparticles as functional materials.
- Hybrid polymers for molecular electronics.
- Characterization of electronic/optical/photophysical properties of polymers.
- Study of free volume, phase transition, relaxation phenomena, and gas diffusion of polymers and polymer blends.
- Semiconducting polymers.
**Classical and Ancient Studies**

**Classical and Ancient Studies Program**
5317 Holmes, 2nd Floor  
(816) 235-1305  
(816) 235-1308  
http://cas.umkc.edu/classics

**Mailing Address:**
University of Missouri - Kansas City  
Classical and Ancient Studies Program  
Cockefair Hall 1065100 Rockhill Road  
Kansas City, MO 64110-2499

**Faculty:**  
Jeff Rydberg-Cox, Professor, Department of English; Classical and Ancient Studies Program Director  
Elpida Anthan, Instructor, Classical and Ancient Studies Program  
Cynthia Jones, Instructor, Classical and Ancient Studies Program  
James Falls, Associate Professor Emeritus, Department of History

**Affiliated Faculty:**  
Virginia Blanton, Chair, Department of English  
Robert Cohon, Research Associate Professor, Department of Art and Art History; Curator of Ancient Art, Nelson-Atkins Museum of Art  
Laurie Ellinghausen, Associate Professor, Department of English  
Linda Mitchell, Martha Jane Phillips Starr/Missouri Distinguished Professor of Women's and Gender Studies  
Tina Niemi, Professor, Department of Geosciences  
Ann Raab, Adjunct Lecturer  
L. Mark Raab, Adjunct Lecturer  
Massimiliano Vitiello, Assistant Professor, Department of History

- Classical and Ancient Studies Student Learning Outcomes
- Majors That Offer a Classics Emphasis
- Classical and Ancient Studies (CLASSICS) Course
- Greek (GREEK) Courses
- Latin (LATIN) Courses

**Student Learning Outcomes**

1. Knowledge of Historical, Literary, Artistic, and Cultural Contexts  
   Students will be able to reproduce in broad outline the main periods of Ancient Mediterranean history, along with significant events and/or developments in each period. Students will also be able to demonstrate their awareness of basic literary, philosophical, social, and cultural developments that affect the interpretation of texts, artifacts, and historical events from cultures and across the Mediterranean.

2. Understanding of the Reception of the Ancient World
Students will be able to demonstrate knowledge of at least one of the ways in which material from the Ancient Mediterranean World has been received and integrated into other later artistic, literary, historic, or cultural contexts.

3. Proficiency With Primary Sources
Students will be able to identify and articulate scholarly problems based on interaction with primary source materials from the ancient world. Students who elect to take Greek or Latin will demonstrate further proficiency working with primary source materials in the original languages.

4. Proficiency in Research Methods
Students will demonstrate knowledge of current research methods and contemporary sources and be able to describe current scholarly conversations about the ancient world.

5. Communication of Knowledge
Students will be able to communicate results of their work effectively to others in expository prose, oral presentations, or electronic media such as films or web pages.

**Classical and Ancient Studies Concentration and Minor**
The field of Classics is the original interdisciplinary university field of study, illuminating the foundations of Western experience through the study of language, literature, religion, philosophy, art, archaeology and other subjects. Modern Classics programs continue to focus on the ancient Mediterranean world, particularly Greek and Roman culture, but also encompass the study of non-Western cultures and post-Greco-Roman societies. The broad scope and intellectual rigor of the Classics and Ancient Studies major and minor options help students to understand the contemporary world and to prepare for a wide range of careers.

The Classical and Ancient Studies program provides several options for the study of history, literature, art, culture, and language of the Ancient Mediterranean world. Students can major in English and complete the track in Classical, Medieval, and Early Modern Literature, major in History with a concentration in Antiquity and Medieval history, or pursue a minor in Classics in conjunction with either of the degrees above or with any other degree program in the college.

**Classical, Medieval, and Early Modern Literature Track in the English Department**
Students wishing to focus on ancient literatures in translation can pursue a degree in English with an emphasis in Classical, Medieval, and Early Modern Literature. This track involves a core of three survey courses to give students grounding in each of the three periods. Students also take one elective from each time period that allows them to study each period in more depth, a course such as 'Shakespeare In Film', 'The Ancient World in Film', or 'Arthurian Legends' that allows them to study how these literatures have been received in modern society; a course such as 'History of English', 'Old English', 'Ancient Greek', 'Classical Latin', or the 'History and Principles of Rhetoric' that allows students to understand the linguistic backgrounds of these literatures. Students complete the degree with three electives that can be taken in the English department or many other departments in the college including Classics, History, Art History, Philosophy, and Geosciences. For more information, see the relevant catalog section for the English Department.

**Antiquity and Medieval History Concentration in the History Department**
Students who are interested in ancient and medieval history can pursue a concentration in Antiquity and Medieval history as part of a history major. The history major includes two foundation courses that survey world history, four courses in the Classics area of concentration, four courses in areas outside the area of concentration, and a two-semester final research sequence: History 301 WI “Historiography and Method,” and History 498 WI “Senior Capstone Seminar.” For the Antiquity and Medieval history
concentration, students take four courses in Ancient or Medieval History. Two of these courses can be taken in departments other than history including Classics, English, Art History, Philosophy, and Geosciences. For more information, see the relevant catalog section for the History Department.

**Minor in Classical and Ancient Studies**
Students can also pursue a minor in Classics in conjunction with either of the degrees above or with any other degree program in the college. The minor is an 18 hour program that allows students the flexibility to pursue their individual interests in the ancient world. To complete the minor students take 18 hours of credit selected from any of the courses in the college about the ancient world. Nine of these hours must be at or above the 300 level. For students choosing to pursue both the minor and one of the two majors above, six credit hours can be counted towards both the major and the minor.


Communication Studies
Department of Communication Studies

Haag Hall, Room 202
5120 Rockhill Road
(816) 235-1337
Fax: (816) 235-5539
com-s@umkc.edu
http://cas.umkc.edu/comm

Mailing Address
University of Missouri-Kansas City
Department of Communication Studies
HH 202
5100 Rockhill Road
Kansas City, MO 64110-2499
Department Chair:

Professors Emeriti:
Joan E. Aitken, Gregory Black

Associate Professor Emeriti
Larry G. Ehrlich

Professors: Michael R. Neer (Ret. Olson Professor), Robert Unger

Associate Professors: Gregory Gutenko, Caitlin Horsmon, Michael McDonald, Peter Morello, G. Thomas Poe

Associate Teaching Professors: Judith K. McCormick (undergraduate adviser)

Assistant Professors: Angela Elam, Ye Wang Assistant Teaching Professor: Linda Kurz (principal undergraduate adviser), Jason Martin

Lecturers: Jean Dufresne, Steven Melling, Michael Schaefer

Department Description
Bachelor of Arts: Communication Studies
  - Student Learning Outcomes
  - Core Program Requirements
    - Interpersonal and Public Communications Emphasis
    - Journalism and Mass Communication Emphasis
    - Film and Media Emphasis

Minor in Communication Studies
Minor in Film Studies

UMKC 2012-13 Arts and Sciences, College of
Communication Studies (COMM-ST) Courses

**Communication Studies Department Description**
The department offers courses leading to a Bachelor of Arts in Communication Studies.

The Bachelor of Arts in Communication Studies degree offers three areas of emphasis:

- Interpersonal and Public Communication
- Journalism and Mass Communication
- Film and Media Studies

The Interpersonal and Public Communication emphasis offers study in the areas of public address and rhetoric, interpersonal and intercultural communication, organizational communication and areas associated with human communication behavior including advertising and public relations.

The Journalism and Mass Communication emphasis offers concentrated study in select areas including print and electronic journalism, radio, television, journalism, advertising and public relations.

The Film and Media Studies emphasis offers a comprehensive approach to film, digital video and new media production.

The UMKC debate program operates from the Department of Communication Studies. UMKC offers a great blend of quality education, extremely competitive debate program and a wonderful city to spend your college years in.

- **Travel Schedule:** UMKC has a full travel schedule and travels the NDT/CEDA policy debate circuit. This includes tournaments at Harvard, Wake Forest, Northwestern, Pepperdine, Georgia State, West Georgia as well as a plethora of regional tournaments.
- **Squad Size:** UMKC has a medium-sized squad which has the benefit of allowing all debaters the ability to go to many tournaments throughout the year. Each debater will have the chance to flourish at both regional and national tournaments.
- **Coaching:** UMKC currently has an excellent coaching staff. Our excellent student-to-coach ratio guarantees hands-on coaching and extensive focus for each debater. We are proud of the great coaches that we have. Each enjoys competitive success of their own and proven coaching experience. Students interested in joining the team may submit applications to the director of debate, 816-235-1695.

**Special Laboratories**
The department has media classrooms and production spaces for student projects, that include a video production studio with multi-camera and “green-screen” capabilities, a sound recording facility with narration booth and radio console, and post production media labs outfitted with latest software, including Final Cut Pro, Avid, Pro Tools, Photoshop, After Effects, Flash, etc.
These software packages provide the tools to not only edit sound and video, but to produce animation, motion graphics, and rich media content for the web. A student equipment check-out lab maintains an extensive inventory of production equipment ranging from traditional film cameras, such as Super 8 and 16mm; to the latest HD video cameras providing the capabilities for professional digital cinematography. Location lighting equipment includes tungsten, fluorescent & HMI instruments. Pro sound gear packages are also available to students including a wide variety of microphones, booms, mixers and digital recorders. Our facilities foster the ability to light, shoot and edit professionally, allowing the students to tell compelling stories that make an impact on audiences.

The nationally syndicated literary program "New Letters on the Air" is produced in association with the department and is broadcast on KCUR-FM, the 100,000-watt public radio station licensed to the University of Missouri-Kansas City. Internships are available to qualified students; they should contact the department for more information.

**Special Awards and Scholarships**
The Alex and Josephine B. Coleman Scholarship is awarded each year to an outstanding junior- or senior-level student. The award recognizes meritorious undergraduate work in communications and encourages program completion. The Suzanne Crispin Williams Scholarship is awarded annually to a non-traditional returning female student in Communication Studies or Women's Studies. A Film Finishing Fund provides grants to intermediate and advanced production students and the Student Film League holds showcases of student film and video projects. Cash prizes may be awarded for winning entries. The Faye Kircher Public Speaking Contest is held in the fall and spring semesters. Students enrolled in ComS 110 courses are selected by their classmates for participation in the public speaking contest. Cash prizes are awarded. The Fred G. Andrews Jubilee Creative Cinema Fund will provide support for sponsored or co-sponsored workshops, programming for Film and Media Arts, as well as internships and scholarships for students majoring in Communication Studies with an emphasis in Film and Media Arts. The Carol Koehler Memorial Scholarship is awarded annually to a Communication Studies student enrolled in a three hour internship.

**Career Implications**
Communication students may find rewarding careers in the multifaceted communication industry. The program is excellent preparation for careers in business, industry, health, public relations, advertising, radio, video and film production, Non-profit organizations and Human resources.

**Further Educational Opportunities**
The B.A. in communication studies prepares students for advanced study in communication studies, film and media, as well as in graduate programs such as law, medicine, business, public administration and those associated with the applied and performing arts.

**Internship Program**
Although not required for a BA in Communication Studies, the Communication Studies Department strongly recommends the internship experience as a means of linking theory to practice, and preparing students to work effectively in professional settings. Internships provide
students with on-the-job experience which is both practical and purposeful. The internship program allows opportunities for experience on a national and international level. The Internship course number is COMS 484. Each intern is required to enroll in at least one credit hour. One credit hour requires 75 hours of internship work. Two credit hours require 150 hours of internship work. Three credit hours require 225 hours of internship work. Four credit hours require 300 hours of internship work. Information on Internship Opportunities is available in the department office. The coordinator for the Internship Program is Linda Kurz. 816-235-5846.

**Advising System**
Current program requirements are available in the department office. Students must file a formal declaration of major with a departmental advisor. The department highly recommends that students meet with their major advisor before enrolling in classes each semester. At 90 hours or one year prior to graduation, students should file for a final degree audit with their major advisor and with the College of Arts and Sciences. Undergraduate advisors are Linda Kurz 816-235-5846 kurzl@umkc.edu and Judith McCormick 816-235-1120 mccormickjk@umkc.edu. In addition to these undergraduate advisors, students in the Film and Media Studies Emphasis may contact Caitlin Horsmon 816-235-2735 or Lyn Elliot 816-235-1708 for advising in that emphasis area.

**Financial Aid**
Students with University work-study assignments are welcomed as student assistants in various aspects of the department's activities.

**Bachelor of Arts: Communication Studies**
The Department of Communication Studies offers a variety of program areas, including speech communication, print and electronic journalism, advertising, public relations, media theory and history, as well as radio, television, and film/video production. While each of these program areas have distinct outcomes in regard to professional competence, the faculty makes a strong effort to work collaboratively to assure that the measure of success in earning a degree in Communication Studies is defined in three departmental outcome goals which we seek to make one in the learning process:

1. Oral and written communication competence.
2. The development of critical thinking skills.
3. The development of both social and professional skills.

We recognize that the development of "professional skills" involve both general and specific outcomes. General outcomes include producing students who display professional standards in regard to interpersonal, intercultural, and organizational communication skills, as well as professional work habits (punctuality, reliability, ethical discernment, teambuilding, etc.). Specific professional skills taught in the Department prepare students to succeed in the professional areas of business communication, health communication, advertising, public relations, film, broadcasting, and journalism.

The Department makes a conscious effort to assess our curricula, teaching, as well as learning processes, and student/faculty competence, on the basis of student learning outcomes. We take pride in our reputation as a "teaching" department.
These outcome goals must equally serve students who will be immediately entering the workplace following the attainment of their undergraduate degree, as well as those who will be entering graduate school programs in a wide variety of academic areas (law, business, speech communication, journalism, film, among others).

In every departmental course/lab, we consciously seek to employ specific learning process options that reinforce the three goals above. For example, in a film/media production class, student work is not only graded on professional standards of technical skill, but also on the ability of the student to give an oral presentation concerning their film/video production, as well as the ability to turn in written work that demonstrates an ability to apply a critical/theoretical/historical analysis of the production. The same approach is likewise applied to professional internships.

The department provides an multidisciplinary approach so students can satisfy their educational and occupational needs across multiple, firmly grounded degree tracks. Regardless of the emphasis, students are required to satisfactorily complete the department's core courses. Students must maintain a 2.0 GPA in their major field. A grade of "D" in a course within the major will not be accepted for credit in the program. With prior permission, three hours of elective credit from another department may be accepted as Communication Studies elective credit. At least 18 of 33 credit hours must be at the 300- or 400-level. Transfer students must complete a minimum of 15 credit hours within the department.

Required Core Courses: (6 Hours)  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 110</td>
<td>Fundamentals of Effective Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 483</td>
<td>Seminar in Communication Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

The program of study for the Bachelor of Arts in Communication Studies consists of 33 total credit hours. COMM-ST 110 and COMM-ST 483 are required for all three emphasis areas. COMM-ST 483 must be taken during a students final semester. Students are expected to work closely with a departmental adviser in designing an undergraduate program of study for their emphasis. Only three credit hours within the 33 hours for a major may be taken in one-hour courses. Students are required to take one writing intensive course within their emphasis area.

Note: Students must successfully complete the WEPT Exam before enrolling in any writing intensive courses. As noted in Pathway, the following classes do not count toward electives in Communication Studies: COMM-ST 421P, COMM-ST 422P, COMM-ST 423P, COMM-ST 424P.

In addition to the department's six hours of core courses (110, 483), COMM-ST 308 is also required for this emphasis. Three hours of Interpersonal and Three hours of Public communication courses are required. Twelve hours of Interpersonal and Public electives are also required. Six hours of departmental electives complete the emphasis for a total of 33 credit hours. Students are required to take one writing intensive course within their emphasis area.

Required Courses: (9 Hours)  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 110</td>
<td>Fundamentals of Effective Speaking &amp; Listening</td>
</tr>
<tr>
<td>COMM-ST 308</td>
<td>Introduction to the Study of Human Communication</td>
</tr>
<tr>
<td>COMM-ST 483</td>
<td>Research Seminar in Communication Studies</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Interpersonal Communication: (3 Hours)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 343</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 344WI</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 377WI</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 431</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 444WI</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Public Communication: (3 Hours)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 213</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 312</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 317</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 341WI</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 446</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 447</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 448</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 484</td>
<td>1-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interpersonal and Public Electives: (12 hours)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 213</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 312</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 317</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 341WI</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 343</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 344WI</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 400</td>
<td>1-3</td>
</tr>
<tr>
<td>COMM-ST 431</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 444WI</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 447</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 448</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 484</td>
<td>1-4</td>
</tr>
<tr>
<td>COMM-ST 498</td>
<td>1-6</td>
</tr>
</tbody>
</table>

In addition to the 6 credit hours of the department’s core courses (110, 483), the Film and Media Studies emphasis requires COMM-ST 330 - Introduction to Film Studies (3 cr. hrs) COMM-ST 339 - Film Theory & Criticism (3 cr. hrs) and 21 hours of Film and Media Studies electives for a total of 33 credit hours. Students are required to take one writing intensive course within their emphasis area.
# Required Courses: (6 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 330</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 339</td>
<td>Film Theory &amp; Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>

# Film and Media Studies Electives: (21 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 250</td>
<td>Introduction to Film and Video Methods</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 281</td>
<td>Animation</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 308</td>
<td>Introduction to the Study of Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 320</td>
<td>Mass Media, Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 341WI</td>
<td>Rhetorical Theory &amp; Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 351WI</td>
<td>Fundamentals of Writing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 354</td>
<td>Introduction to Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 363</td>
<td>Radio Production I</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 373</td>
<td>Intermediate Media Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 376</td>
<td>History of the Film Industry</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 379</td>
<td>African American Images in Film</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 380</td>
<td>Contemporary Issues in the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 384</td>
<td>Documentary Film</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 385</td>
<td>Documentary Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 391</td>
<td>The Worlds of Alfred Hitchcock</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 392</td>
<td>Great Directors of Foreign Film</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 393</td>
<td>History of the Hollywood Musical</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 394</td>
<td>The World of &quot;Film Noir&quot;</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 400</td>
<td>Special Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------------</td>
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</tr>
<tr>
<td>COMM-ST 402CD</td>
<td>American Social Film; Silver Screen &amp; the American Dream</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 403CE</td>
<td>Radical Changes Since 1945</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 406CD</td>
<td>Film Adaptation</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 454</td>
<td>Advanced Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 457</td>
<td>Producing and Distributing Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 470</td>
<td>Directing</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 471</td>
<td>Advanced Media Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 473</td>
<td>Directing Actors &amp; Scenes</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 478</td>
<td>Media Law</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 484</td>
<td>Communication Studies Activities</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 498</td>
<td>Special Problems in Communication Studies</td>
<td>1-6</td>
</tr>
</tbody>
</table>

In addition to the department's six credit hours of core courses (COMM-ST 110, COMM-ST 483), the Journalism and Mass Communication emphasis requires six hours: COMM-ST 220 and COMM-ST 303WI. An additional 21 hours of Journalism and Mass Communication electives are required, for a total of 33 hours. Students are required to take one writing intensive course within their emphasis area.

**Required Courses: (6 Hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 220</td>
<td>Modern Communications Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 303WI</td>
<td>Introduction to Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>

**Journalism and Mass Communication Electives: (21 Hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 260P</td>
<td>Introduction to Web Communications</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 265</td>
<td>Media Photoimaging</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 308</td>
<td>Introduction to the Study of Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>COMM-ST 311</td>
<td>Radio &amp; Television Performance</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 314WI</td>
<td>Reporting</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 320</td>
<td>Mass Media, Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 331WI</td>
<td>Mass Media in America</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 338</td>
<td>Media Ethics</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 341WI</td>
<td>Rhetorical Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 351WI</td>
<td>Fundamentals of Writing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 361</td>
<td>Broadcast Management</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 363</td>
<td>Radio Production I</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 380</td>
<td>Contemporary Issues in the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 383</td>
<td>Cross Cultural Journalism &amp; Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 384</td>
<td>Documentary Film</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 388</td>
<td>Media Ethics</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 400</td>
<td>Special Studies (Variable Topics)</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-3 Topic must be within the Journalism &amp; Mass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Communication Emphasis.</td>
<td></td>
</tr>
<tr>
<td>COMM-ST 402CD</td>
<td>American Social Film: Silver Screen &amp; American</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Dream</td>
<td></td>
</tr>
<tr>
<td>COMM-ST 432</td>
<td>Press, Politics and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 446</td>
<td>Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 447</td>
<td>Interactive and Social Media Advertising</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 448</td>
<td>Principles of Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 456</td>
<td>Electronic Journalism</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 462</td>
<td>Public Broadcasting</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 466</td>
<td>Electronic Journalism Performance</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 478</td>
<td>Media Law</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 484</td>
<td>Communication Studies Activities</td>
<td>1-4</td>
</tr>
<tr>
<td>COMM-ST 498</td>
<td>Special Problems in Communication Studies</td>
<td>1-6</td>
</tr>
</tbody>
</table>

**Minor in Communication Studies**

A minor in communication studies may be earned by completing two required courses (COMM-ST 110 and COMM-ST 308), plus another 12 credit hours in any 300-400 level courses within the department. Students may declare their minor by meeting with the undergraduate adviser and filing a completed Declaration of Major Form (available in 202 Haag Hall) with a current copy of their transcript. A grade of "D" in a course within the minor will not be accepted for credit in the program.
### Required Courses: (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 110</td>
<td>Fundamentals of Effective Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 308</td>
<td>Introduction to the Study of Human Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

### Minor in Film Studies

A minor may be earned in the study of the film medium and the use of film and mass media for artistic, cultural and social purposes. (Not available to ComS majors.)

#### Required Courses: (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 330</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 376</td>
<td>History of the American Film Industry</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Electives: (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 220</td>
<td>Modern Communications Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 250</td>
<td>Introduction to Film and Video Methods</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 281</td>
<td>Animation</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 330</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 331</td>
<td>Mass Media, Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 339</td>
<td>Film Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 341WI</td>
<td>Rhetorical Theory &amp; Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 351WI</td>
<td>Fundamentals of Writing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 354</td>
<td>Introduction to Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 363</td>
<td>Radio Production I</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 373</td>
<td>Intermediate Media Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 380</td>
<td>Contemporary Issues in the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 384</td>
<td>Documentary Film</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 385</td>
<td>Documentary Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 391</td>
<td>The Worlds of Alfred Hitchcock</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 392</td>
<td>Great Directors of Foreign Film</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 393</td>
<td>History of the Hollywood Musical</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 394</td>
<td>The World of &quot;Film Noir&quot;</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 400</td>
<td>Special Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>COMM-ST 402CD</td>
<td>American Social Film: Silver Screen &amp; the American Dream</td>
<td></td>
</tr>
<tr>
<td>COMM-ST 403CE</td>
<td>Radical Changes Since 1945</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 406CD</td>
<td>Film Adaptation</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 454</td>
<td>Advanced Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 457</td>
<td>Producing and Distributing Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 470</td>
<td>Directing</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 471</td>
<td>Advanced Media Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 473</td>
<td>Directing Actors and Scenes</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 478</td>
<td>Media Law</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>COMM-ST 484</td>
<td>Communication Studies Activities</td>
<td>1-4</td>
</tr>
<tr>
<td>COMM-ST 498</td>
<td>Special Problems in Communication Studies</td>
<td>1-6</td>
</tr>
</tbody>
</table>

Restricted to 6 cr. hr. with any one instructor.
Criminal Justice and Criminology

Department of Criminal Justice and Criminology
5215 Rockhill Road
(816) 235-2751
Fax: (816) 235-5193
mailto: falkp@umkc.edu
http://cas.umkc.edu/cjc

Mailing Address
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Department of Criminal Justice and Criminology
5215 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Kenneth Novak

Professors:
Cathleen Burnett (principal undergraduate adviser), Wayne Lucas

Associate Professors:
Alexander Holsinger (principal graduate adviser), Kristi Holsinger, Kenneth Novak (chair)

Assistant Professors: Andrew Fox, Jessica Hodge, Toya Like-Haislip, Lori Sexton

Administrative Assistant: Tricia Falk

- Department Description
- Department Activities
- Bachelor of Arts in Criminal Justice and Criminology
  - Career Implications
  - Student Learning Outcomes
  - Program Requirements
- Minor in Criminal Justice and Criminology
- Undergraduate Courses (CJC)
- Master of Science in Criminal Justice and Criminology
  - Student Learning Outcomes
  - Career Implications
  - Application Procedures
  - Admission Requirements
  - Program Requirements

Graduate Courses (CJC)
Department of Criminal Justice and Criminology Description
The Department of Criminal Justice and Criminology offers programs of study leading to the following degrees:
- Bachelor of Arts in Criminal Justice and Criminology
- Master of Science in Criminal Justice and Criminology
A program minor is available in Criminal Justice and Criminology.

The mission of the department is to extend knowledge about the nature of crime and criminal justice. This mission includes continuing participation by faculty in significant criminological research; other scholarly endeavors; and inviting students to join in that activity by:
- Learning the core materials of the discipline.
- Acquiring research skills.
- Assisting in faculty research.
- Becoming involved in student activities that supplement coursework and research.

Within the context of a liberal arts education, the program offers an interdisciplinary approach to study the criminal justice system. The program is designed to develop the intellectual skills required to function effectively as a field practitioner and to provide the knowledge base for careers as planners, administrators and researchers. The course offerings emphasize issues and problems relevant to policy considerations in criminal justice.

Department Activities
Undergraduate Academic Advising
Student academic advising is a continuous process in the department. Undergraduate advisers are available for consultation throughout the academic year. The department recommends that students check the program requirements in the department office before filing the declaration of major form.

Undergraduate majors are encouraged to consult with the department to establish a tentative plan of study. Students should leave their mail and e-mail addresses with the department office so that they can receive notifications concerning class time tables, new classes, and other departmental information of interest to majors.

Financial Assistance
Students can receive financial assistance through various campus scholarships, loan programs, grants and the work-study program. Students who are interested should contact the Financial Aid and Scholarships Office.

Alvin Brooks Scholarship
Award Amount: Varies
Qualifications: Full-time undergraduate student majoring in Criminal Justice & Criminology, who is in good academic standing with a minimum GPA of 2.0. Preference given to students who are a first generation college student, who graduated from an accredited Kansas City, Missouri high school or transferred from a Kansas City area community college. The student must demonstrate financial need.

How to Apply: The College of Arts and Sciences' Scholarship Application.

Criminal Justice Club and Honor Society
The Criminal Justice and Criminology Club is open to all students interested in criminal justice topics; students do not have to be a Criminal Justice and Criminology Major. Club activities include service projects in the community, sponsorship of community speakers on campus, participation in local and regional professional meetings, and learning about internships and research opportunities. The department
also has a chapter of Alpha Phi Sigma, a national honor society for Criminal Justice students. Students must meet certain academic qualifications and pay an initiation fee to join this national honor society.

**Cooperative Programs**
The department cooperates with several other programs on the campus by jointly listing courses at the undergraduate level. Students may benefit from combining one of these areas of study with their major:

- Gerontology
- Honors program
- Urban Studies
- Women's and Gender Studies
- Black Studies

**Graduate Academic Advising**
Student academic advising is a continuous process in the department. The principal graduate adviser is available for consultation throughout the academic year. Graduate students are required to consult with the department to establish a tentative plan of study. A master's degree program of study form, and a form appointing a supervisory committee, should be submitted by the end of the student's first semester in the program. Students should leave their mail and e-mail addresses with the department so they can receive notifications concerning class time tables, new classes and other departmental news and opportunities.

**Career Implications of the B.A. in CJC**
The B.A. curriculum is designed to prepare students for entry-level positions and middle-management careers in the public and private sectors of police and security services, adult and juvenile justice systems and post-adjudicatory services such as probation, parole and related private organizations, as well as federal, state and local administrative agencies. The program is intended to augment skills that are developed in the training programs and academies of service agencies and to develop new talent for the wide variety of agencies and organizations that administer our legal institutions. In addition to the foregoing variety of career roles, CJC majors can exercise career options in consulting, government, human services, journalism and urban planning, and with the appropriate graduate training, in teaching social work, criminology and law.

**Career Implications of the M.S. in CJC**
**Master of Science in CJC: Program Description**
The M.S. degree in CJC offers coursework that emphasizes policy analysis of criminal justice and criminology issues. The M.S.-CJC degree may serve as a terminal degree for those seeking appropriate study and academic credentials to qualify for management and administrative positions in justice-related agencies. The degree may also serve as preparation for advanced study in criminology and criminal justice at the doctoral level. Depending upon personal academic or career goals, students may concentrate studies in the treatment and research area, or the area of justice agency development and management.

**BA in Criminal Justice and Criminology**
The mission of the Bachelor of Arts in Criminal Justice and Criminology is to prepare future leaders in the field of Criminal Justice with the knowledge to understand and the skills to utilize resources for creative and effective problem-solving.
Graduates of the UMKC’s Undergraduate Criminal Justice & Criminology Degree Program will:

- Demonstrate knowledge of the Criminal Justice System, its subsystems (the institutions and structures of police, courts, and corrections) and their interactions (processes).

- Demonstrate knowledge of the major theoretical explanations for individual motivations to commit crime as well as the nature/occurrence of crime which includes the prominent schools of criminological thoughts - the Positivist, Classical and Chicago Schools of Criminology - and emergent theories.

- Demonstrate the ability to analyze criminal justice literature, through reading comprehension and interpretation.

The B.A. degree requires a total of 36 credit hours in addition to the general education requirements for a degree in The College of Arts and Sciences.

For students selecting the CJC major, required courses are the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJC 101</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJC 319</td>
<td>Theoretical Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJC 363*</td>
<td>Introduction to Statistics in Sociology/Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJC 470WI**</td>
<td>Capstone: Criminal Justice and Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJC 483</td>
<td>Methods of Sociological Research</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CJC 486</td>
<td>Methods of Program Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

* MATH 235 is not a substitute for CJC 363.
**Students are expected to take CJC 470WI after they finish all other CJC courses. CJC 470WI is open only to CJC majors in their last semester of coursework who have passed the WEPT exam.

Two of the following are also required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJC 250</td>
<td>Introduction to Policing</td>
<td>3</td>
</tr>
<tr>
<td>CJC 260</td>
<td>Principles and Practices of Criminal Courts</td>
<td>3</td>
</tr>
<tr>
<td>CJC 265</td>
<td>Delinquency and Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJC 270</td>
<td>Principles of Corrections</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must receive a grade of no lower than C- in the core required courses (CJC 101, 319, 363, 483,
and 470WI) and achieve an overall GPA of 2.0 in the major. Students with more than one academic major may apply only 9 credit hours from another degree program toward the CJC major.

It is suggested that students broaden their course choices by selecting related offerings in English (especially those courses that stress writing skills), philosophy, history, geography, political science, psychology, sociology and public administration.

Transfer students may be credited with a maximum of 15 Criminal Justice and Criminology credit hours (the introductory course plus 12 hours of electives) from other institutions. However, please note that students transferring from community colleges (or equivalent institutions) must fit the following distribution of 15 hours credited toward the major: The introductory course, 2 courses equivalent to the Pick Two option, and only two Electives.

In selecting courses to fulfill the 15 credit hours of CJC electives, CJC majors and minors should be aware of the following restrictions:
* No more than 6 credit hours of Directed Studies in Criminal Justice and Criminology (CJC 490) may be used to fulfill CJC elective requirements.
* Participation in only one Internship in Criminal Justice (CJC 491) may be used to fulfill CJC elective requirements.
* No more than 3 credit hours of Topics in Criminal Justice (CJC 492) may be used to fulfill CJC elective requirements.

Students who are pursuing the CJC major or minor are strongly encouraged to meet with a CJC adviser each semester to review their progress toward degree completion, as well as to determine the appropriateness of coursework selected.

**Minor in Criminal Justice and Criminology**
Undergraduate students can obtain a CJC minor. A minimum of 18 credit hours is required, including the introductory course CJC 101. At least 9 of the 18 credit hours must be in courses at the 300 or 400 level, and at least 9 of the 18 credit hours must be taken at UMKC. Only 6 credit hours from the major field of study may be applied toward a CJC minor, and only 3 credit hours may overlap between two minors. Students should receive a grade no lower than a C- in the required course and should have an overall 2.0 GPA for the minor.

**Master of Science: Criminal Justice and Criminology**
Applicants must submit an application for admission to UMKC and transcripts of their undergraduate work to the university Office of Admissions. Additionally, applicants must submit a writing sample to the department's Admissions Committee (i.e., the Principal Graduate Advisor). This writing sample should be two to three pages in length (double-spaced) and should identify how the applicant's undergraduate education and their work or personal experience has prepared them for graduate study in the area of criminal justice and criminology. Applicants are also encouraged to express how they view study in our graduate program as fitting with their future career or educational goals. It is recommended students review the MS in CJC program's course offerings (available via the department's web site) as well as the concentration areas of the faculty (also available on-line) in order to glean additional information about what the academic programming has to offer. The writing sample is to be sent directly to the principal graduate adviser for the M.S.-CJC program at the department address. Applicants for the spring term must have all materials to the admissions committee by November 1, and those applying for fall semester or summer term admission must have materials in by April 1.
The department strongly recommends that application materials be submitted well in advance of the posted due date to ensure all materials will be on hand in time for review. Decisions regarding admission to the graduate program are made by the graduate faculty of the program. Materials are reviewed with attention to past academic performance and substantive areas of study that would prepare students for CJC graduate study.

The minimum admission requirements for entrance into the M.S.-CJC program include the following:

1. Completed an undergraduate degree, from an accredited university or college, with coursework in the socio-behavioral sciences sufficient to prepare for graduate-level study in the criminal justice and criminology field.
2. Achieved a minimum cumulative GPA of 3.0 in all undergraduate work.
3. Completed undergraduate courses in statistics, research methods, and theories of crime.
4. Students must take the Graduate Record Exam and have the scores sent directly to the School of Graduate Studies.

The application process is competitive. Satisfaction of the minimum criteria stated above does not guarantee admission to the graduate program of study. Students are admitted according to their rank in the applicant pool and consideration of the adequacy of departmental resources.

Students who do not meet admission requirements, but who otherwise may show promise for graduate work, may be admitted provisionally to the program. Provisional admission means deficiencies must be corrected before a student is fully admitted as a degree-seeking student in the M.S.-CJC program. Typical deficiencies include a need to take undergraduate coursework to prepare for graduate study in this program, or to demonstrate scholastic ability in graduate-level courses.

Graduates from the Master of Science in Criminal Justice and Criminology program will:

- Have knowledge as to the character and recent trends in crime in the United States.
- Understand the major elements that shape and impact the development of justice system policies in response to crime.
- Have knowledge with respect to various models for defining the scope and operation of the criminal justice system.
- Have specific knowledge regarding recent developments in criminological theories that attempt to explain delinquent and criminal behavior.
- Be able to employ elements of qualitative and/or quantitative research methods to design scientific-based projects to examine issues related to criminal justice or criminal behavior.
- Have knowledge and understanding of statistical methods, processes, and tests to understand and interpret scientific research findings from the criminal justice and criminology literature.
- Have specific knowledge and understanding of current literature, research, and issues in a cognitive area related to criminal justice chosen by the student.

The M.S.-CJC degree requires successful completion of 30 credit hours of graduate work. Within these 30 hours, students may elect to complete a thesis or pursue the non-thesis option.

A core of five courses is required of all students. The required courses include:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJC 5511 Sociological Research Methods II</td>
<td>3</td>
</tr>
<tr>
<td>CJC 5515 Qualitative Research Methods in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJC 5516 Intermediate Quantitative Methods (Statistics)</td>
<td>3</td>
</tr>
<tr>
<td>CJC 5518 Advanced Criminological Theory</td>
<td>3</td>
</tr>
<tr>
<td>CJC 5580 Policy and Decision-Making in Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>
The required graduate courses in statistics, research methods and theory demand completion of prerequisite courses in these areas from the student's undergraduate work. Those who have not had such courses may be required to take the prerequisite course(s) prior to enrolling in the graduate course. Beyond the required courses, students must complete an additional 15 hours of academic work. This work may include thesis hours, courses in independent directed studies, classes from the CJC curriculum, or courses from other disciplines. The content of those 15 hours of study will reflect the student's choice after consultation with their faculty adviser, with respect to thesis or non-thesis options.

**Thesis Option**
Those electing to write a thesis as part of their graduate work can receive up to 6 hours credit (CJC 5599) for preparation of the thesis. In addition to writing the thesis students must successfully complete an oral defense of that thesis before their supervisory committee. The research topic of the thesis will address some issue of specific interest to the student. Through courses, literature review, and analyses conducted in developing the thesis, students are expected to become proficient in their specific thesis topic area.

**Non-Thesis Option**
Those electing the non-thesis option will take additional coursework in lieu of the 6.0 credit hours allotted for the thesis option outlined above.

**Comprehensive Exams**
During their final semester, students pursuing the non-thesis option must successfully complete a comprehensive exam. The comprehensive exam will require the student to write an independent research paper that outlines solutions to a given scenario. After completion and submission of the paper, the student will meet with a panel of three faculty members where an assessment of the paper will be given ("Pass", "Revise and Resubmit", "Fail"). See the Principal Graduate Adviser for more information regarding the comprehensive exam option.
Economics
Department of Economics
Haag Hall, Room 211
5120 Rockhill Road
(816) 235-1314
Fax: (816) 235-2834
economics@umkc.edu
http://cas.umkc.edu/econ

Mailing Address
University of Missouri-Kansas City
Department of Economics
HH 211
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Stephanie Kelton, (816) 235-2837

Undergraduate Adviser:
Fred Lee, (816) 235-2543

IPhD Coordinator:
Peter J. Eaton, (816) 235-2832

MA Advisor:
Linwood Tauheed, (816) 235-6477

Graduate Admissions Advisor:
Ben Young, (816) 235-5699

Administrative Associate:
Deborah E. Foster, (816) 235-2405

Senior Secretary:
Katherine A. Taylor, (816) 235-1153

Professors Emeriti:
W. Robert Brazelton, L. Kenneth Hubbell, A. Ross Shepherd, F. Eugene Wagner, John O. Ward

Professors:
Mathew Forstater, Michael Hudson (distinguished research professor), Jan Kregel (distinguished research professor), Frederic S. Lee, James I. Sturgeon (chair), Karen S. Vorst, L. Randall Wray

Associate Professors:
William Black, Peter J. Eaton, Stephanie Kelton, Linwood Tauheed, Erik K. Olsen

Lecturers:
Judith Ancel, John Henry, Michael Kelsay, Ben Young
• Department Description
• Undergraduate Programs
  ▪ Bachelor of Arts: Economics
    Student Learning Outcomes
    Program Requirements
  ▪ Minor in Economics
  ▪ Undergraduate Economics (ECON) Courses
• Graduate Programs
  ▪ Master of Arts: Economics
    ▪ Student Learning Outcomes
    ▪ Program Requirements
• Interdisciplinary Ph.D.
• Graduate Economics (ECON) Courses

Research Centers and Programs
Center for Economic Information: Peter Eaton, director Douglas Bowles, associate director Sara Ballew, programmer/analyst Saima Sami, programmer/analyst

Economics Department Description
The Department of Economics is committed to promoting excellence in broad-based undergraduate programs; graduate and interdisciplinary doctoral education; research; and community, university and professional service. The department focuses its research, teaching and service efforts on the urban mission of the University by fostering a diversity of research and teaching perspectives for faculty and students.

The department offers an undergraduate major that can be completed either through day or evening classes and is a major participant in PACE (Program for Adult College Education).

Our Students
The department offers programs leading to a Bachelor of Arts, Master's of Arts and Interdisciplinary Ph.D., in Economics. It also provides undergraduate service courses to the College of Arts and Sciences, the Bloch School, and the School of Computing and Engineering. Undergraduate major participate in a variety of visiting lecture programs and faculty colloquialism through the Economics Club and the Omicron Delta Epsilon (the economics honorary society).

Faculty and Facilities
Faculty members of the department maintain active, extensive research programs and a strong commitment to teaching -- holding four outstanding teaching awards. Faculty members have served as presidents for national and regional economic associations and lectured and conducted research in the Fulbright Program, the Ford Foundation, the U.S. Department of Commerce, and the U.S. Department of Labor. Faculty members have established national and international reputations in a number of research fields. For a small faculty, the department has ranked high among other economics departments at comparable institutions nationally.

The Department of Economics and the Center for Economic Information are housed in Haag Hall. Faculty and other department programs are housed in Manheim Hall. Students have access to state-of-the-art computer labs and classrooms.
The Center for Economic Information was established in November 1994 with the goal of making local, regional and national information accessible to economic decision-makers in the Kansas City metropolitan area. The CEI is affiliated with the Department of Economics and the College of Arts and Sciences.

The center is involved in research, teaching and outreach activities. The primary expertise of the center is in application of information technology for economic analysis.

Missouri Council for Economic Education
The department houses the Missouri Council for Economic Education (MCEE). MCEE is the statewide provider of economic education training for elementary and secondary education. It is located in Manheim Hall.

Information
You may request information about economics programs by calling the department's main number, (816) 235-1314; visiting the Web site, http://cas.umkc.edu/econ/; or sending an information request via e-mail to economics@umkc.edu.

For specific information on the undergraduate degree program, contact Frederic Lee leefs@umkc.edu. Graduate Admissions contact Ben Young, Graduate Admissions Advisor, (816) 235-5699 or mailto:youngb@umkc.edu. Master's program contact Linwood Tauheed, Master of Arts Advisor, (816) 235-6477 or mailto:tauheedl@umkc.edu. Peter Eaton, IPHD Coordinator, (816) 235-2832 or mailto: eatonp@umkc.edu.

Interdisciplinary Ph.D.
The Department of Economics participates in the Interdisciplinary Ph.D. program. For further information see School of Graduate Studies section in this catalog, contact the Department of Economics, (816) 235-1314, or Peter Eaton, Interdisciplinary Ph.D. Coordinator, (816) 235-2832 or eatonp@umkc.edu.

Bachelor of Arts: Economics
Upon graduating with a B.A. degree in Economics:
- Students will be able to distinguish the attributes of a variety of economic theories and policies.
- Students will be able to use their economic knowledge to examine a wide variety of problems that are economic, social and/or political in nature, on both the micro and macro levels.
- Students will have knowledge of statistical methods that will become part of their problem-solving toolset.
- Students will become proficient writers through assignments in regular classes, as well as intensive-writing experiences in the capstone course.
- All students will have undertaken a research project in conjunction with a local community development corporation as part of an academic service learning assignment. In fact, there will be
many opportunities to be actively engaged with the Kansas City community through our community service requirement in various courses.

- Students will be better problem solvers and better-informed citizens.

Career Implications

The undergraduate degree in economics is excellent preparation for graduate study in economics and most other academic disciplines, as well as law and business. A degree in economics opens a wide range of career choices including teaching, government service, finance, banking and insurance. It is excellent preparation for a career in business, public administration and management.

Advising System

Students in the program should consult Professor Frederic Lee, (816) 235-2543 and E-mail: leefs@umkc.edu, for undergraduate advising.

Program of Study

The department offers a bachelor of arts in economics.

Honor Society

The Zeta chapter of the Omicron Delta Epsilon International Honor Society in Economics is on campus. Information on this organization can be obtained from Ben Young. The society is open to all undergraduate students with at least 12 hours of economics and a 3.0 GPA in economics and related courses. Graduate students in economics with a 3.0 GPA also may join.

Special Awards and Scholarships

The Joe E. Brown Institutional Economics Award is given each year to an undergraduate or graduate student for outstanding academic performance in the study of institutional theory. The department also offers the Robert Greene Scholarship, Frank Wagner Scholarship and the James Crew Scholarship for undergraduates.

The Bachelor of Arts in Economics

This program requires a minimum of 30 hours and a maximum of 45 hours of courses in the department. A minimum 2.0 GPA in the major is required for graduation.

Related courses in anthropology, English, geography, philosophy, history, political science, psychology, sociology, accounting and computer programming are recommended to satisfy the College of Arts and Sciences requirements for graduation. In addition, MATH 210 Calculus I is recommended for the student's program of study.

The following courses are required:

- ECON 201 Introduction to Economics I
- ECON 202 Introduction to Economics II
- ECON 301 Macroeconomic Analysis
- ECON 302 Microeconomic Analysis
- ECON 406WI History of Economic Thought
- ECON 425 Intermediate Economic Statistics
ECON 451 Institutional Economic Theory
ECON 499WI Capstone Colloquium

MATH 110 College Algebra and MATH 235 Elementary Statistics or their equivalents are prerequisites for ECON 425.
ECON 421 is recommended for students who plan to do graduate work in economics.
Six hours of elective economics courses at the Econ 300 and 400 level are required.

Undergraduate Minor in Economics

The minor in economics is open to all students and consists of a minimum of 18 hours (six courses) in economics.
The courses are

ECON 201 Introduction to Economics I
ECON 202 Introduction to Economics II
ECON 3XX or 4XX (12)

Twelve hours in 300- to 400-level courses must be approved by the economics undergraduate adviser.

Teacher Certification in Social Studies

Certification as a middle school (grades 5-9) or secondary (grades 9-12) social studies teacher in either Kansas or Missouri requires that a student complete specific requirements in History, Political Science, Economics, Geography, Behavioral Sciences and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

PACE Degree in Liberal Arts

The department participates in several courses in PACE: leading to concentrations in human resources or a program for working adults in a weeknight/weekend format. These courses include

Economics Pace Courses

ECON 366 Art Markets
SOC-SCI 395C Economics of Energy
ECON 202P Introduction to Economics II
ECON 395I Views of a Good Society
ECON 201P Introduction to Economics (Independent Study)
SOC-SCI 397A The Economics of Public Process (Independent Study)

ECON 301P Macroeconomic Analysis
ECON 406WI History of Economic Thought
ECON 331P Money and Banking
ECON 397CP Current Macroeconomic Issues

ECON 302P Microeconomic Analysis
SOC-SCI 397B The Economics of Public Process

ECON 353 Financial Analysis and the Economy
SOC-SCI 395B The Economics of the Law
SOC-SCI 305P Economic Principles and Application of Accounting

SOC-SCI 438P Labor History and Economic Policy
HISTORY 400Z Topics: KC Labor History
ECON 486 Labor Economics
SOC-SCI 490C Readings in Labor Economics
HMNTY 401PW Culture of the Working Class

Master of Arts: Economics
Students graduating with a master's degree in economics will:

- Have an advanced knowledge of the basic areas of the field.
- Be able to integrate their knowledge with critical thinking skills.
- Be able to articulate their knowledge, both orally and in writing.
- Be able to effectively research the literature of this field.

The Department of Economics offers a master of arts degree. The M.A. program seeks to provide students with a broad level of competence in economics. Students are encouraged to extend the reach of their scholarship to acquire a wide-ranging foundation in addition to technical mastery of theory and quantitative methods. This is done through the combination of required and elective courses.

Career Implications
The master of arts in economics is designed as a preparation for further graduate training at the doctoral level and for professional positions in industry, business, government, teaching and research. Courses may be taken in areas other than economics with the approval of the graduate adviser.

Advising System
Students should consult with the graduate advisor, Linwood Tauheed, (816) 235-6477,mailto:tauheedl@umkc.edu, to plan their graduate program of study. For Preadmission advising contact Ben Young, (816) 235-5699,mailto:youngb@umkc.edu.

Admission Requirements
Students may be admitted for graduate study in economics if they have a baccalaureate degree in economics from an accredited college or university with an overall grade-point average of at least 2.5 on the 4.0 scale (or the equivalent). Applicants whose undergraduate GPA is less than 2.5 may be considered for admission upon petition to the Graduate Admission Committee of the Department of Economics. Students who have a baccalaureate degree with an overall undergraduate GPA of 2.5 or better and who did not major in economics may be admitted to the program upon consultation with the department's graduate adviser and on demonstrating proficiency in the following areas:

- Intermediate Macroeconomic Analysis
- Intermediate Microeconomic Analysis
- Introductory Statistics
All students with less than a 2.5 (4.0 scale) GPA prior to admission shall be required to take the general Graduate Record Examinations (GRE) and obtain a score of 153 in verbal, a score of 144 in quantitative, and a score of 4.0 on the analytical portion or better. International students who have studied less than two years (full time) in a U.S. academic program or a comparable program in an English-speaking country are required to have TOEFL score of 550 or above or 213 on the computer-based test.

**Degree Requirements**

Thirty hours of graduate work are required for the M.A. in economics. The following required courses (15 hours) and their prerequisites are listed:

- ECON 5501 Advanced Macroeconomic Analysis  
  (ECON 301 Macroeconomic Analysis)
- ECON 5502 Advanced Microeconomic Analysis  
  (ECON 302 Microeconomic Analysis and ECON 5521 Mathematical Economics)
- ECON 5521 Mathematical Economics
- ECON 5525 Econometric Methods  
  (ECON 425 Int. Economic Statistics)
- ECON 5551 Advanced Institutional Theory  
  (ECON 451 Institutional Economic Theory)

Substitutions for the above prerequisites may be approved by the graduate adviser.

ECON 5521 is waived if students have completed ECON 421 or its equivalent. In the event students have not had ECON 421 they should take ECON 5521. Calculus is strongly recommended as a prerequisite for ECON 5521.

ECON 425 is required for all students who have not had it, or something very much like it. (See Professor Eaton)

ECON 451 is required for all students who have not had an approved substitute - see graduate adviser.

An additional 15 hours of coursework must be completed. Up to nine of these hours may be in selected 400-level courses in economics and related disciplines, upon consultation with the graduate adviser. Graduate credit toward the M.A. in economics is not given for courses at the 300 level. No more than 6 hours of ECON 5590, Special Topics, may be counted toward graduation.

For students not entering in the fall semester, it is strongly recommended that ECON 5521 (Mathematical Economics) be taken at the first opportunity. The prerequisites for graduate courses are very important and must be completed prior to enrollment in courses with prerequisites. Graduate students in economics must also comply with the general graduate academic regulations as found in the School of Graduate Studies section of this catalog.

**Requirements for Retention**

Students are expected to maintain a high degree of academic excellence. Students must maintain a minimum 3.0 graduate grade-point average. A student who receives a grade of C+ or lower will receive an academic warning. Students who receive a grade of C or C- in two classes, or a grade of D+ or lower in one class, will be dropped from the program. A 3.0 (B) must be earned in all undergraduate courses approved for graduate credit and in ECON 5590 and ECON 5599.

A student is required to fill out a "program of study" with the graduate adviser before the completion of 15 hours of coursework. At that time, the graduate committee will consider the student's performance and make a recommendation with regard to retention of the student. After being approved by the College of Arts and Sciences graduate officer, the program of study is filed with the UMKC Records Office and may be amended upon consultation with the graduate adviser.
Requirements for Graduation
Students on the elective courses track are required to complete 15 hours beyond the required courses. Of these, 6 hours must be at the 5500 level or above. Students on the project track complete a supervised applied research project which counts as part of the 15 hours beyond the required courses. The number of hours for the project depends on its scope and is determined by students and their project adviser. For more information about the project, see the graduate adviser. Depending on the scope of the project, students are required to take 3 to 6 hours from among the following courses:

ECON 5591 Research & Planning Seminar (required)
ECON 5599 Research and Thesis (ECON 5591 prerequisite)
**English Language and Literature**

**Department of English Language and Literature**

Cockefair Hall, Room 106
5121 Rockhill Road
(816)235-1305 or (816)235-1307
Fax:(816)235-1308
umkc-english@umkc.edu
http://cas.umkc.edu/english

**Mailing Address**

University of Missouri-Kansas City
Department of English Language and Literature
Cockefair Hall 106
5100 Rockhill Road
Kansas City, MO 64110-2499

Chair: Virginia Blanton
Associate Chair: Jennifer Phegley

Professors: Virginia Blanton, Michelle Boisseau, Norma Cantú, Joan F. Dean, Stephen Dilks, Jennifer Phegley, Jeffrey Rydberg-Cox, Thomas Stroik

Associate Professors: Hadara Bar-Nadav, John Barton, Laurie Ellinghausen, Jane Greer, Christie Hodgen, Daniel Mahala, Michael Pritchett, Anthony Shiu

Assistant Professors: Jennifer Frangos, Robert Stewart

Full-time Lecturers: Elpida Anthan, Lorna Condit, Crystal Gorham Doss, Nicole Higgins, Sheila Honig, Cynthia Jones, Katie Kline, Ben Moats, Andrés Rodriguez, Whitney Terrell, Henri Rix Wood

Professors Emeriti: Robert M. Farnsworth, Moira Ferguson, Daniel F. Jaffè, James McKinley, David Ray, Lois Spatz, Linda Voigts, David Weinglass, Robert Willson

Associate Professors Emeriti: Ralph Berets, James A. Reeds, Jonas Spatz

- Department Description
- Internships and Other Opportunities
- Undergraduate Admission Requirements
- Honors Credit
- Bachelor of Arts: English
  - Student Learning Outcomes
- Program Requirements
  - Creative Writing Emphasis
- Teacher Certification in English
Minors in English
- Minor in Creative Writing
- Minor in Language and Literature
- Minor in Writing
- Minor in Manuscript, Print Culture, and Editing

Undergraduate English (ENGLISH) Courses
Master of Arts: English
- Student Learning Outcomes

Program Requirements
Master of Fine Arts: Creative Writing and Media Arts
Graduate Certificate in the Teaching of Writing
Interdisciplinary Ph.D. in English
Graduate Assistantships
Graduate English (ENGLISH) Courses

**Department Description**
The Department of English Language and Literature offers programs of study that lead to the Bachelor of Arts, the Master of Arts, the Master of Fine Arts, and the Interdisciplinary Doctor of Philosophy degrees. In the undergraduate program, students may pursue a general English program, they may elect to focus on language and rhetoric, British and American literature, Classical, Medieval and Early Modern literature, or they may choose an emphasis in creative writing or secondary English education. Four minors in English are offered: Language and Literature; Creative Writing; Writing; and Manuscript, Print Culture, and Editing. M.A. in English students may focus their studies on Literature or may elect the Language and Literature track or the Manuscript, Print Culture, and Editing track, a Graduate Certificate in Teaching of Writing is also available. The M.F.A. in Creative Writing and Media Arts is an interdisciplinary program leading to a terminal degree. English is an academic discipline eligible for full participation in the University's Interdisciplinary Ph.D. program.

The Department of English includes faculty who have a broad range of professional competence in the study of literature and language, and who are trained to teach courses in British and American literature, linguistics, American culture, film, creative writing, and composition. The department believes the study and teaching of literature and language to be an important means of preserving and vitalizing our humanistic tradition.

**Publications**
The Department of English and the College of Arts and Sciences publish *New Letters*, a continuation of The University Review, which for over 50 years published the works of new and distinguished writers. *New Letters* continues to provide a medium for the best imaginative writing available.

The Department of English sponsors the publication of *Number One*, a magazine of student poetry and fiction, and *The Sosland Journal*, a collection of award-winning student essays from the Ilus W. Davis contest.
BkMk Press, operated under the auspices of the College of Arts and Sciences and housed in the Department of English, publishes books of high-quality poetry and prose by professional writers.

**Greater Kansas City Writing Project**
The English Language and Literature Department, in conjunction with several local school districts, sponsors the Greater Kansas City Writing Project (GKCWP), a graduate in-service program for teachers of writing (K-18). This program consists of summer graduate credit workshops and school district in-service sessions throughout the academic year. The GKCWP is an official National Writing Project affiliate.

**Related Information, Opportunities, and Conferences**
The Department of English sponsors undergraduate and graduate student conferences, a writers' reading series, summer creative writing workshops (the Mark Twain Workshop and the *New Letters* Writers Conference), and annual contests for the Barbara Storck Poetry and Short Story Award and the Ilus W. Davis Award in Expository Writing. The Department offers additional scholarships for creative writers and students in literature, including the Diversity in English Scholarship for undergraduates. Graduate students are also eligible for the Farnsworth Fellowship. I-PhD students can apply for the Ilus Davis Doctoral Teaching Fellowship. The Department also offers courses and an annual conference for English teachers as part of its continuing education function. Three student groups are available: Undergraduate English Council, English Graduate Student Association, and the Graduate Students in Creative Writing.

**Career Implications of the Undergraduate Degree**
The English major is recommended for students interested in a broad, general background in the humanities and in the skills of analysis, synthesis, and self-expression. It is excellent preparation for medicine, business, and law, as well as for further literary study in graduate school. In addition to careers in education, writing, and editing, English majors with writing and editorial skills find that they are desirable candidates for positions in businesses where effective communication and written evaluation are required.

**Advising System**
All undergraduate English majors are assigned to the Director of Undergraduate Studies.

**Undergraduate Admission Requirements**

*Preparation*
Transfer students should enter the English major with soundly developed writing and reading skills and a general familiarity with the major authors and literary movements of English and American literature. Transfer students should meet with the Director of Undergraduate Studies immediately upon admittance to discuss requirements and any possible transfer credits towards the major. With the approval of the Director of Undergraduate Studies, the Department accepts up to 15 hours of transfer credits in English for courses fulfilling major requirements.
Honors Credit
The letter H appearing before undergraduate English courses in the regular schedule designates honors credit.

Internships and Other Opportunities
Through the resources of the metropolitan media and publishing houses, as well as the on-campus facilities of the national literary journal *New Letters*, the literary publisher BkMk Press, and the academic journal, *Eighteenth Century Theory & Interpretation*, students may gain experience in writing and editing. With the approval of the supervising faculty, as well as the Director of Undergraduate Studies, students may intern with these media for credit. They may also serve on the staff of the student literary journal, *Number One*. The Undergraduate English Council, a social club focused on literary activities, offers additional opportunities, such as open-mic nights and an annual symposium in conjunction with its Literature for Life week.

Interdisciplinary Ph.D in English
English is an academic discipline eligible for full participation in UMKC's Interdisciplinary Ph.D. Program. Students interested in this study should review the School of Graduate Studies catalog for general and discipline-specific admission criteria, academic regulations, and degree requirements. Interested students should contact the Department's doctoral program advisor. Students may select from the following areas of focus: American Studies, Medieval Studies, Print Culture, Rhetoric & Composition, Transatlantic Studies, or Women's & Gender Studies. Suggested Focus Areas: American Studies; Manuscript and Print Culture; Medieval Studies; Rhetoric and Composition; Transatlantic Studies; Women and Gender Studies

Teacher Certification in English
Certification as a middle school (grades 5-9) or secondary (grades 9-12) English teacher in either Kansas or Missouri requires that a student complete specific requirements in English and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

Master of Arts: English

Student Learning Outcomes and Program Requirements
Students graduating with an M.A. in English will be able to:
- Create sophisticated academic arguments that situate texts within aesthetic, social, and historical context.
- Produce work in dialogue with current and historical conversations in the field;
- Evaluate and engage methodological approaches appropriate to academic discourse;
- Develop and defend, both orally and in writing, their critical perspectives;
- Synthesize an understanding of interrelations across diverse fields of study;
- Demonstrate a broad grounding in the diversity of fields in English studies.

The Department of English offers three graduate programs: the Master of Arts: English; the Master of Fine Arts: Creative Writing and Media Arts; and the Interdisciplinary Ph.D. The Department also offers a Graduate Certificate in the Teaching of Writing.
Master of Arts: English

The Department of English offers the Master of Arts in English, which focuses on literary study, as well as two tracks that allow students to concentrate their studies in a particular area: 1) Language and Literature, and 2) Manuscript, Print Culture, and Editing. Through courses in English and American literature, creative and expository writing, film, linguistics, composition/rhetoric, literary criticism, the history of books and print culture, as well as editing, these programs of study are designed to prepare students for teaching, research, and writing careers, for careers in editing, and for further study at the doctoral level.

The 31-hour M.A. in English is designed for students desiring a general background in English and American literature and is strongly recommended for students planning further graduate study in English and/or American literature.

The Language and Literature track is designed for students who wish to combine graduate study of literature with the study of linguistics and/or composition and rhetoric. This track is recommended for students interested in teaching in community colleges or secondary schools and for students interested in pursuing the Ph.D. in composition and rhetoric or linguistics.

The Manuscript, Print Culture, and Editing track is designed for students who wish to combine the study of literature with the study of book history, print culture, and editing. This track is recommended for students interested in editorial careers, offering several internship experiences in print and online media, and for students interested in pursuing the Ph.D. in book history and print culture.

Members of the graduate faculty are assigned as advisers to newly admitted M.A. students. New graduate students should meet with their advisers as soon as possible to prepare an official program of study.

Admission

The application process is competitive. Satisfying the admission requirements does not guarantee admission to the program.

The applicant must hold:

- a B.A. in English, or a B.A. degree that includes at least 30 hours of sophomore-, junior- or senior-level English courses, or the equivalent. Applicants with fewer than 30 hours of undergraduate English courses may be admitted and assigned additional coursework as part of their program. These extra hours are added to the hours required for graduation.
- a 3.0 cumulative grade-point average in undergraduate work and a 3.0 average in undergraduate English coursework. In unusual circumstances, the graduate committee may consider applicants with lower grade-point averages.

The applicant must submit:

- a complete application to the university. The university application should be sent to the UMKC Admissions Office. All other materials should be sent to Graduate Programs, Department of English, Cockefair Hall 106.
- a complete Application for Admission to the Master of Arts: English.
- a recommended 60 percent or higher score on the verbal aptitude portion of the Graduate Record Exam (GRE).
• a writing sample that demonstrates the applicant's writing abilities in up to 15 pages of recent academic prose.
• a statement of purpose that describes the applicant's academic and professional objectives. In an essay of 400 to 500 words, applicants should discuss in detail their interest in their emphasis area and their research or writing in the area.
• three letters of recommendation that evaluate the applicant's readiness for graduate study written by three professors or others who know the applicant's abilities and potential well.

Students may not take more than six hours of graduate credit in English before entering the program as a "fully admitted" student.

**M.A. in English Degree Requirements**

Students must earn 31 graduate credits to complete the M.A. in English. Of these credits, at least 15 hours must be at graduate level (courses numbered 5000 and above) and taught by a member of the graduate faculty and at least 9 hours must be in 5000-level seminars or other 5000-level courses which are not cross-listed with 400-level courses.

Students must take ENGLISH 5000 and successfully complete one hour of ENGLISH 5601 (Literature), ENGLISH 5602 (Language & Literature), or ENGLISH 5603 (Manuscript, Print Culture, and Editing) for their "Culminating Experience," as is appropriate depending on the focus of their studies.

Students must maintain a 3.0 (B) grade-point average to remain in the M.A. program and to complete the degree.

By the time of graduation from the M.A. program, students must fulfill a foreign language requirement by satisfactorily completing (with a C or better) one year (two university semesters) of the same foreign language. Alternatively, the foreign language requirement may be satisfied by scoring a "C" on the final exam of the first-year, second-semester course in a foreign language.

Students must remain continuously enrolled, except in summer, for a minimum of 1 credit hour per semester. ENGLISH 5899 is the continuous enrollment course number.

Students must complete a formal Program of Study and have it signed within a year after admission. A final Program of Study must be submitted and signed during the semester a student files to graduate.

Students must complete all coursework within seven years.

Students must take at least one course from five of the seven designated areas, including at least one course from areas I & II, one course from areas III & IV, and one course from areas V-VII:

I. Criticism and Scholarship
ENGLISH 447/5547, ENGLISH 5550G, ENGLISH 5555G

II. Language and Rhetoric
ENGLISH 400CH, ENGLISH 445/5545, ENGLISH 470, ENGLISH 5519, ENGLISH 5520, ENGLISH 5550J, ENGLISH 5550M, ENGLISH 5555J, ENGLISH 5555M

III. Literature Through the Middle Ages
ENGLISH 400CF, ENGLISH 412/5512, ENGLISH 422/5522, ENGLISH 452/5552, ENGLISH 5503,
ENGLISH 5550A, ENGLISH 5550R, ENGLISH 5555A

IV. Renaissance Literature
ENGLISH 400CA, ENGLISH 413/5513, ENGLISH 414/5514, ENGLISH 423/5523, ENGLISH 451/5551, ENGLISH 452/5552, ENGLISH 461/5561, ENGLISH 5550B, ENGLISH 5555B, ENGLISH
V. Late 17th- and 18th-Century Literature

VI. Nineteenth-Century Literature
**ENGLISH 410/5510, *ENGLISH 416/5516, ENGLISH 418/5518, ENGLISH 426/5526, **ENGLISH 440/5540, *ENGLISH 455/5556, ENGLISH 5550D, ENGLISH 5550E, ENGLISH 5555D

VII. Twentieth-Century Literature
**ENGLISH 410/5510, ENGLISH 417/5517, ENGLISH 427/5527, ENGLISH 428/5528, **ENGLISH 440/5540 ENGLISH 453/5553, ENGLISH 463/5563, ENGLISH 465/5565, ENGLISH 5550F, ENGLISH 5555E, ENGLISH 5555F

*Satisfies 18th- or 19th-Century requirement, depending on the content.
**Satisfies 19th- or 20th-Century requirement, depending on the content.

Other courses in the catalog may satisfy an area requirement if the content is appropriate, e.g., ENGLISH 5550H Graduate Seminar: Studies in Fiction or ENGLISH 433/5533 Histories of Writing, Reading, and Publishing.

Students who focus on Literature must complete ENGLISH 5601 Culminating Experience (1) on a topic related to the study of Literature.

**Language and Literature Track**
If desired, a student may elect the Language and Literature Track when obtaining the M.A. in English. At least 12 hours selected from the following list of courses are required: ENGLISH 445/5545, ENGLISH 447/5547, ENGLISH 470, ENGLISH 5519, ENGLISH 5520, ENGLISH 5550G/5555G, ENGLISH 5550J/5555J, ENGLISH 5550M/5555M, and ENGLISH 5550P. For students interested in teaching in community colleges or secondary schools or in pursuing a Ph.D. in composition and rhetoric, ENGLISH 5519 is highly recommended. ENGLISH 5519 is required for graduate teaching assistants.

In addition to the requirements for areas I & II, students must take at least one course from three of the five remaining areas (III-VII), including at least one course from areas III-IV and at least one course from areas V-VII.

**Students who focus on Language & Literature must complete ENGLISH 5602 Culminating Experience (1) on a topic related to the study of Language & Literature.**

**Manuscript, Print Culture, and Editing Track**
If desired, a student may elect the Manuscript, Print Culture, and Editing Track when obtaining the M.A. in English. This track examines the social, cultural, economic, and political history of the written word. It considers relationships among authors, editors, publishers, printers, illustrators, and booksellers as well as the reception of texts by readers, reviewers, and critics. In addition, it allows students to study the production of texts through the centuries while also gaining hands-on editing experience through internal and external publishing internships. Students will take a wide variety of courses covering a range of historical periods that have a significant emphasis on the history of reading, writing, and authorship as well as courses that focus on aspects of contemporary publishing and editing.

This track also follows the distribution requirements for the M.A. in English, and it requires that students take twelve (12) of the 31 required credit hours in courses that have been designated as ones fulfilling the goals of the concentration in Manuscript, Print Culture, and Editing; some courses will always be so designated, including the following:
ENGLISH 448 External Internship
ENGLISH 449A Publication Practicum
ENGLISH 449B Publication Practicum
ENGLISH 5501 Magazine Editing
ENGLISH 5533 Histories of Writing, Reading, and Publishing
ENGLISH 5541 Girls and Print Culture

The following courses may also be used to fulfill the requirements for the concentration in Manuscript, Print Culture, and Editing if approved by the Graduate Committee. Each semester, courses so designated will be listed on the Department of English website: ENGLISH 5508, ENGLISH 5510, ENGLISH 5512, ENGLISH 5513, ENGLISH 5514, ENGLISH 5515, ENGLISH 5516, ENGLISH 5517, ENGLISH 5518, ENGLISH 5522, ENGLISH 5523, ENGLISH 5526, ENGLISH 5527, ENGLISH 5528, ENGLISH 5531, ENGLISH 5534, ENGLISH 5540, ENGLISH 5545, ENGLISH 5550A, ENGLISH 5550B, ENGLISH 5550C, ENGLISH 5550D, ENGLISH 5550E, ENGLISH 5550F, ENGLISH 5550I, ENGLISH 5551, ENGLISH 5552, ENGLISH 5553, ENGLISH 5555A, ENGLISH 5555B, ENGLISH 5555C, ENGLISH 5555D, ENGLISH 5555E, ENGLISH 5555F, ENGLISH 5555I, ENGLISH 5556, ENGLISH 5561, ENGLISH 5562, ENGLISH 5563, ENGLISH 5565. New courses may receive the designation if approved by the Department of English's Graduate Committee.

Students who elect the MPCE track must complete ENGLISH 5603 Culminating Experience (1) on a topic related to the study of Manuscript, Print Culture, and Editing.

**Culminating Experience**

At the end of their M.A. course work (either in the last semester or the second to last semester), all M.A. students in English will revise a seminar paper (written in a previous course and/or in their area of interest) under the guidance of a faculty mentor. The goal of the revisions will be to create a polished paper of about 20-30 pages that could be the basis for a conference paper, a writing sample, or a publishable article.

Students will enroll in and successfully complete one hour of ENGLISH 5601 (Literature), ENGLISH 5602 (Language & Literature), or ENGLISH 5603 (Manuscript, Print Culture, and Editing) for their "Culminating Experience," as is appropriate depending on the focus of their studies. Enrollment is required in order to work on this final paper with their chosen faculty mentor.

Final papers will be reviewed by a faculty committee that will rotate each semester. The committee will consist of two assigned members of the graduate faculty appointed by the Director of Graduate Studies, who will work with the student's faculty mentor.

Students will turn in their revised papers to their mentors and the review committee at least two weeks prior to the end of the semester. The mentor is responsible for arranging a meeting with the student and the review committee before the end of the semester in which the Culminating Experience is taken. After conducting a defense about the paper and providing feedback for the student, the mentor and the review committee will assign a grade of pass or fail. Students must complete the oral defense in order to pass.

In addition to the department requirements above, graduate students in English must comply with the requirements listed in the General Graduate Academic Regulations and Information section of this catalog.
Master of Fine Arts: Creative Writing and Media Arts
The Department of English offers the degree Master of Fine Arts (M.F.A.) in Creative Writing and Media Arts. This interdisciplinary degree includes coursework in allied programs in Communication Studies and Theatre. The 42-hour program provides learning opportunities in writing, literary publishing, broadcasting, screen and stage writing, and production skills. The M.F.A. is a terminal degree in the field of creative writing and is designed to prepare students for careers as literary artists, authors, playwrights, poets, teachers, and screenwriters.

Admission
The application process is competitive. Satisfying the admission requirements does not guarantee admission to the program.

The applicant must hold:
- a B.A. in English, or a B.A. degree that includes at least 30 hours of sophomore-, junior- or senior-level English courses, or the equivalent. Applicants with fewer than 30 hours of undergraduate English courses may be admitted and assigned additional coursework as part of their program. These extra hours are added to the hours required for graduation.
- a 3.0 cumulative grade-point average in undergraduate work and a 3.0 average in undergraduate English coursework. In unusual circumstances, the Graduate Committee may consider applicants with lower grade-point averages.

The applicant must submit:
- a complete application to the university. The university application should be sent to the UMKC Admissions Office. All other materials should be sent to Graduate Programs, Department of English, Cockefair Hall 106.
- a complete application for admission to the M.F.A. in Creative Writing and Media Arts.
- a recommended 60 percent or higher score on the verbal aptitude portion of the Graduate Record Exam (GRE).
- a writing sample that demonstrates the applicant's writing abilities. A sample in a single emphasis area (no more than 10 pages for poetry; no more than 20 pages for all other disciplines: fiction, creative nonfiction, playwriting or screenwriting) is required (poems [6-10] or stories, essays, novel chapters, or dramatic-work excerpts).
- a statement of purpose that describes the applicant's academic and professional objectives. In an essay of 400 to 500 words, applicants should discuss in detail their interest in their emphasis area (poetry, fiction, creative nonfiction, playwriting or screenwriting), and their experience and goals in the area.
- three letters of recommendation that evaluate the applicant's readiness for graduate study written by three professors or others who know the applicant's abilities and potential well.

Students may not take more than six hours of graduate credit in English before entering the program as a "fully admitted" student.

M.F.A. in Creative Writing and Media Arts Degree Requirements
Students must earn 42 graduate credit-hours beyond the bachelor's degree. Of these, at least 27 hours must be at the graduate level (courses numbered 5500 and above) and taught by a member of UMKC’s graduate faculty.

Students must maintain a 3.0 (B) grade-point average to remain in the M.F.A. program and to complete the degree.
Foreign Language Requirement: By the time of graduation from the M.F.A. program, students must have completed one year (two university semesters) of a single foreign language. Alternatively, the foreign language requirement may be satisfied by scoring a "C" on the final exam of the first-year, second-semester course in foreign language. Previous undergraduate coursework may be used to satisfy this requirement.

Students must remain continuously enrolled, except in summer, for a minimum of 1 credit hour per semester. ENGLISH 5899 is the continuous enrollment course number.

Students must complete a formal Program of Study and have it signed within a year after admission. A final Program of Study must be submitted and signed during the semester a student files to graduate.

Students must complete all coursework within seven years.

Students must focus on one or more of the following genres: Creative Nonfiction, Fiction, Playwriting, Screenwriting, or Poetry.

Residency requirements: a minimum of 33 hours must be completed at UMKC.

Requirements for M.F.A. Thesis
In consultation with the faculty, the student will chose a thesis committee comprised of three members: a thesis director from the M.F.A. faculty and two other faculty members approved by the director and selected from the M.F.A. faculty, the faculty of another institution, or the faculties of the Departments of English, Communication Studies, or Theatre. Under the guidance of the thesis director, the student will complete a publishable or producible manuscript of one of the following:

- a book of poems (48-80 pages, single spaced); or
- a book of short stories or creative nonfiction essays (180 pages, double spaced); or
- a novel or novel-length nonfiction book (180-page minimum, double spaced); or
- a full-length play or several one-act plays; or
- a feature-length screenplay (95-120 pages) or a series bible and two 1-hour episodes (20 pages + two 45-page episodes); or
- a full-length cross-genre work, with Committee Chair permission.

At the completion of the writing project, the student will meet with his or her committee for a one-hour defense of the thesis.

Advisers may approve courses in other departments that may be highly valuable for particular student programs, e.g., History for documentary film, Foreign Language for translation, Philosophy for aesthetics and theoretical/experimental approaches, and Art. Collaborative directed studies may be offered to allow two or more students to use two or more genres/media. Students may also seek collaborative opportunities in the Conservatory of Music and Dance and in Computer Science.

In addition to the department requirements above, graduate students in English must comply with the requirements listed in the General Graduate Academic Regulations and Information section of this catalog.
Graduates of M.F.A. program in Creative Writing & Media Arts will be able to demonstrate:

- Mastery of poetics or storytelling craft through the creation of a full-length manuscript of poetry, fiction, non-fiction, plays, or screenplays that are structurally sound, polished, and complete, and have a distinct voice;
- Effective problem-solving and revision strategies in the composition of poems, fiction, non-fiction, plays, or screenplays;
- A deliberate, masterful command of language, including style, grammar, and mechanics;
- Proficiency in at least one genre outside of their primary field and the ability to apply the techniques of their secondary genres to the work they produce in their primary field or study;
- Sophisticated critical analyses of literary texts, including an understanding of how a text displays a writer's artistic techniques and the ability to incorporate those techniques into their own writing; and
- Thorough knowledge of the literary traditions of their primary genre and the ability to situate their own work within current literary conversations.

**Graduate Certificate in the Teaching of Writing**

Upon completion of the Graduate Certificate in Teaching Writing, participants will be able to:

- Understand the writing process as it translates to the teaching of writing in varied genres and contexts;
- Develop writing assignments that demonstrate how writing can be used as a tool for learning and critical inquiry;
- Design effective writing tasks using or situated within new media environments;
- Create a personal writing pedagogy that leads to consistency in practice when teaching, assigning, responding to, and assessing writing;
- Collaborate with a professional community of educators, pre-K through University, who reflect on their own teaching and writing;
- Fulfill leadership roles in professional development programs related to improved literacy instruction.

The Graduate Certificate in Teaching Writing is an 18-credit-hour program offered through the Greater Kansas City Writing Project housed in the Department of English at the University of Missouri-Kansas City. Certificate courses may be applicable to the MA or MFA in English and is especially appropriate for post-master's degree candidates who wish to pursue a specialization in teaching writing. The Certificate requires a minimum of 12 hours at the 500 level or above.

Courses Required: 18 credit hours

The core courses required for the Graduate Certificate total 9 credit hours:

- ENGLISH 5550MA Greater Kansas City Writing Project Invitational Institute (3)
- ENGLISH 5520A Teaching Writing with New Media (3)
- ENGLISH 5520B Seminar in Professional Writing for Teachers-Advanced Institute (3)

Suggested electives applicable to the MA in English:

- ENGLISH 5519 Teaching Writing: Theories, Histories, Contexts, Practices (3)
- ENGLISH 5533 Histories of Writing, Reading, and Publishing (3)
- ENGLISH 5541 Girls and Print Culture (3)
- ENGLISH 5545 History and Principles of Rhetoric (3)
- ENGLISH 5550M Graduate Seminar in Rhetoric & Composition (3)
- ENGLISH 5550P Graduate Seminar: Sociolinguistics and Dialectology (3)
- ENGLISH 5555M Graduate Seminar: Composition (3)
Suggested electives applicable to the Med in Education:
EDUC-C&I 5547  Literacy Development/Biliteracy (3)
EDUC-C&I 5547  Second Language Acquisition (3)
EDUC-C&I 5562  Teaching For Equity & Social Justice (3)
EDUC-C&I 5546  Intercultural Communication (3)
Other English and Education courses may also be approved.

Admission Process:
Applicants must be admitted to the UMKC Graduate School and by the Department of English.
Application materials can be obtained from our website.

**Graduate Assistantships**

The Department of English offers a limited number of Graduate Teaching Assistantships on a competitive basis. Applications for Graduate Teaching Assistantships are considered in January for the following fall semester. All Graduate Teaching Assistants are expected to enroll in at least six hours per semester. Graduate Teaching Assistantships may be awarded to students who demonstrate readiness to become teachers in freshman- and sophomore-level English courses. Graduate Teaching Assistants must undergo a pre-semester orientation and attend mentoring meetings twice monthly with the GTA mentor and fellow graduate teachers. GTAs are also required to enroll in English 5519. Normally M.A. and M.F.A. students will receive a maximum of two years of GTA funding; Interdisciplinary Ph.D. students will receive a maximum of three years of GTA funding, and those who complete both an M.A. and an Interdisciplinary Ph.D. in the department will receive a maximum of four years of GTA funding. These terms are contingent upon a successful yearly review of performance in the classroom and adequate academic performance. M.A. students who have completed 21 hours or more of coursework may not have their assistantships renewed without making a special appeal to the Graduate Committee justifying the need for continuing support. All GTAs must submit a brief statement of their intent to renew their GTA position to the Graduate Committee each year before the January 15 admissions deadline.
**Bachelor of Arts: English**

To graduate with a major in English, students must achieve a grade-point average of at least 2.0 in the 36-hour program, but no credit will be given for courses in which the grade is below C-.

Students may pursue a general program in English leading to the Bachelor of Arts degree (focusing on British & American or Classical, Medieval, and Early Modern literatures or taking the track in language and rhetoric), or they may choose an emphasis area in creative writing or secondary English education.

The Bachelor of Arts in English program is recommended for students interested in a broad general background in the humanities with a concentration in literature and language and for those interested in obtaining a firm foundation for further study in graduate school. English majors planning to attend graduate school are strongly urged to take two years of a foreign language.

**Requirements for the B.A. in English**

The Bachelor of Arts in English is designed for students desiring a broad general background in English and American literature (a). To receive a B.A. in English, students must complete the following 36-hour program (b). At least 18 of the 36 required credit hours listed below must be taken within the English Department at UMKC (c):

**All of the following (15 credits):**

- ENGLISH 311 American Literature I
- ENGLISH 317 British Literature I
- ENGLISH 321 American Literature II
- ENGLISH 323 Shakespeare
- ENGLISH 327 British Literature II

**One of the following (3 credits):**

- ENGLISH 310 Introduction to Linguistics Language Science
- ENGLISH 320 Structure of English
- ENGLISH 330 History of the English Language

**One of the following (3 credits):**

- ENGLISH 305WI Theory and Practice of Composition
- ENGLISH 307WI Language, Literacy, Power
- ENGLISH 308 Rhetorics of New Media
- ENGLISH 309WI Rhetorics of Public Memory
- ENGLISH 342WI Women and Rhetoric
- ENGLISH 445 History and Principles of Rhetoric

**FOUR additional courses in Language or Literature; at least two of which must be at the 400 level and two of which must cover periods prior to 1900 (12 credits):**

- ENGLISH 300 Cluster Course: Clio & Other Muses
- ENGLISH 300CD Cluster Course: American Social Film: Silver Screen American Dream
- ENGLISH 300CE Cluster Course: Radical Changes Since 1945
- ENGLISH 300CQ Cluster Course: Race in American Film
- ENGLISH 300CW Cluster Course: Critical Issues in Women's & Gender Studies
- ENGLISH 300CY Cluster Course: Ancient World/Cinema
- ENGLISH 318 Bible as Literature
- ENGLISH 319 Myth and Literature
ENGLISH 325 Arthurian Legends
ENGLISH 340A Classical Literature in Translation
ENGLISH 350 The 18th Century Novel
ENGLISH 355 The Novel Before 1900
ENGLISH 356 Studies in Poetry
ENGLISH 400CA Cluster Course: Images of the Human Body in Renaissance
ENGLISH 400CB Cluster Course: England King's and Shakespeare's
ENGLISH 400CF Cluster Course: Courts and Culture in the Middle Ages
ENGLISH 400CQ Cluster Course: Sinai & Olympus: Views of Man and God
ENGLISH 404 Old English
ENGLISH 412 Chaucer
ENGLISH 413 Renaissance Literature I
ENGLISH 414 Milton
ENGLISH 415 Restoration and Early 18th-Century British Literature
ENGLISH 416 The Romantic Period
ENGLISH 418 19th-Century American Literature
ENGLISH 422 Medieval Literature
ENGLISH 423 Renaissance Literature II
ENGLISH 425 18th-Century British Literature II
ENGLISH 426 The Victorian Period
ENGLISH 431 Late 18th-Century British Literature
ENGLISH 433 Histories of Reading, Writing, and Publishing (if content is appropriate)
ENGLISH 451 Shakespeare Comedies and Histories
ENGLISH 452 Early English Drama
ENGLISH 455 Studies in the Novel 1740-1900
ENGLISH 461 Shakespeare Tragedies and Romances
ENGLISH 462 Restoration and 18th-Century Drama

Capstone experience--one of the following (3 credits):
ENGLISH 499 Senior Tutorial (d)
Any 400 level English course in literature or linguistics that is cross-listed with a graduate level course in English (e). Capstone contract required (f).

Course Requirements for the Classical, Medieval, & Early Modern Literature Track

I. LITERARY SURVEYS: ALL OF THE FOLLOWING (9 credits)
ENGLISH 340A / CLASSICS 340A Classical Literature in Translations (3)
ENGLISH 317 British Literature I (3)
ENGLISH 323 Shakespeare (3)

II. ANCIENT LITERATURE: ONE OF THE FOLLOWING (3 credits)
CLASSICS 318 / ENGLISH 318 Bible as Literature (3)
CLASSICS 319 / ENGLISH 319 Myth and Literature (3)
CLASSICS 300CB Women in the Ancient World (3)
CLASSICS 300CS / ENGLISH 300CS Clio and the Other Muses: History and Culture in 5th Century Athens (3)
CLASSICS 300CR Roman Revolution: History and Culture from the Gracchi to Augustus (3)

III. MEDIEVAL LITERATURE: ONE OF THE FOLLOWING (3 credits)
ENGLISH 325 Arthurian Legends (3)
ENGLISH 400CF Courts and Culture (3)
ENGLISH 412 Chaucer (3)
ENGLISH 422 Medieval Literature (3)
ENGLISH 464 Medieval Methods/Paleography (3)

IV. EARLY MODERN LITERATURE: ONE OF THE FOLLOWING (3 credits)
ENGLISH 414 Milton (3)
ENGLISH 413 Renaissance Literature I (3)
ENGLISH 423 Renaissance Literature II (3)

V. RECEPTION: ONE OF THE FOLLOWING (3 credits)
ENGLISH 300CY / CLASSICS 300CY Ancient World in film (3)
ENGLISH 376 / CLASSICS 376 Ancient Concepts of the Hero (3)
ENGLISH 439 Shakespeare and Film (3)

VI. LANGUAGE/LINGUISTICS/RHETORIC CLASS: ONE OF THE FOLLOWING (3 credits)
ENGLISH 330 History of the English Language (3)
ENGLISH 404 Old English (3)
ENGLISH 445 History/Principles of Rhetoric (3)
Any three-credit course with the curricular designation GREEK or LATIN

VII. ELECTIVES (9 credits)
Any three courses from the list above, which have not already been used to satisfy a requirement, or any of the courses listed below.
ART-HIST 253 History of the Designed Environment, Ancient and Medieval (3)
CLASSICS 301 / ART-HIST 301 Survey of Western Art I (3)
ART-HIST 445 Northern European Art: 15th and 16th Centuries (3)
ART-HIST 450 15th Century Italian Art and Architecture (3)
ART-HIST 452 Greek Art and Architecture (3)
ART-HIST 497A Special Studies in Medieval/Renaissance Art (3)
ART-HIST 497I Special Studies in Ancient Art (3)
CLASSICS 210 Ancient World Literature (3)
CLASSICS 300CZ / GEOLOGY 326CZ Archaeology of Ancient Disasters (3)
CLASSICS 369 Introduction to Prehistoric and Classical Archaeology (3)
CLASSICS 370 Archaeology as Anthropology (3) PHILOS 430 / CLASSICS 430 Plato (3)
PHILOS 431 / CLASSICS 431 Aristotle (3)
CLASSICS 467 Myth and Ritual (3)
CLASSICS 469 Archaeology and the Biblical History (3)
HISTORY 470 / CLASSICS 470 Ancient Egypt (3)
CLASSICS 470P Ancient World: Social History of the Ancient World (3)
HISTORY 471 / CLASSICS 471 Ancient Greece (3)
CLASSICS 471P Ancient World: Political History of the Ancient World (3)
HISTORY 472 / CLASSICS 472 Ancient Rome (3)
CLASSICS 472P Ancient World: Cultural & Intellectual Dimensions of Ancient Civilization (3)
HISTORY 475WI / CLASSICS 471WI History of Ancient Israel (3)
ART-HIST 479 / CLASSICS 479 From the Parthenon to the Altar of Peace (3)
HISTORY 306A History of Christianity to the Middle Ages (3)
HISTORY 411A Medieval Civilization I (3)
HISTORY 411B Medieval Civilization II (3)
HISTORY 412A Medieval Women and Children (3)
HISTORY 412B The Black Death and Late Medieval Society (3)
HISTORY 413 Renaissance (3)
HISTORY 414 Reformation (3)
HISTORY 431R Medieval England 1066-1485 (3)
HISTORY 432R Tudor England 1485-1603 (3)
HISTORY 444R Islam and the Arabs: The Formative Period (3)
HISTORY 468R Archaeology and the History of Antiquity (3)
HISTORY 476 Medieval Jewish History (3)
PHILOS 310WI Ancient Philosophy (3)
PHILOS 328 Philosophy in the Middle Ages (3)
THEATRE 350 Theatre History I (3)

VIII. CAPSTONE EXPERIENCE (3 credits): ENGLISH 499 or CLASSICS 499. Students must sign a Capstone contract.

Students must complete the 36 hours in required above, and of those at least 18 credits must be taken with the English Department at UMKC. English courses in which students receive a grade below C- will not count toward fulfilling these requirements.

**No course can satisfy more than one requirement.

Course Requirements for the Language and Rhetoric Track
I. Literature: All of the following (15 credits):
ENGLISH 311 American Literature I
ENGLISH 317 British Literature I
ENGLISH 321 American Literature II
ENGLISH 323 Shakespeare
ENGLISH 327 British Literature II

II. Language: One of the following (3 credits):
ENGLISH 310 Introduction to Linguistics/Language Science
ENGLISH 320 Structure of English
ENGLISH 330 History of the English Language

III. Rhetoric: One of the following (3 credits):
ENGLISH 305WI Theory and Practice of Composition
ENGLISH 307WI Language, Literacy, Power
ENGLISH 308 Rhetorics of New Media
ENGLISH 309WI Rhetorics of Public Memory
ENGLISH 342WI Women and Rhetoric
ENGLISH 445 History and Principles of Rhetoric

IV. Language/Rhetoric/Theory: Two of the following (6 credits):
ENGLISH 305WI Theory and Practice of Composition
ENGLISH 307WI Language, Literacy, Power
ENGLISH 308 Rhetorics of New Media
ENGLISH 309WI Rhetorics of Public Memory
ENGLISH 310 Introduction to Linguistics/Language Science
ENGLISH 320 Structure of English
ENGLISH 330 History of the English Language
ENGLISH 342WI Women and Rhetoric
ENGLISH 433 Histories of Writing, Reading, and Publishing
ENGLISH 441 Girls and Print Culture
ENGLISH 445 History and Principles of Rhetoric  
ENGLISH 447 Introduction to Literary Criticism  
ENGLISH 470 Introduction to Descriptive Linguistics  

V. Electives: Two 300/400 level language, rhetoric, creative writing, or literature courses (6 credits)  
(c):  

VI. Capstone experience--one of the following (3 credits):  
ENGLISH 499 Senior Tutorial (d)  

Any 400 level English course in literature or linguistics that is cross-listed with a graduate level course in English (e).  

Capstone contract required (f).  

Literature Track:  
By the time a student completes the Program of Study in Literature s/he should be able to demonstrate an ability to:  
1. Create coherent academic arguments that are built upon multi-leveled textual analysis.  
2. Integrate close reading of primary texts.  
3. Engage in critical conversations.  
4. Present an essay in ways that reflect a sense of professional rules and conventions.  

Language and Rhetoric Track:  
By the time a student completes the Program of Study in the Language and Rhetoric track s/he should be able to demonstrate an ability to:  
1. Create coherent academic arguments that are built upon complex rhetorical and/or linguistic analysis.  
2. Analyze the language and rhetoric of varied texts and media.  
3. Situate media in cultural and/or historical contexts.  
4. Engage in critical conversations.  
5. Present an essay in ways that reflect a sense of professional rules and conventions.  

The English Language and Literature Department will accept no more than six hours of correspondence credit toward the completion of the 36-hour program.  
a) Students contemplating graduate work in English are urged to take at least one course from each of the major periods of English and American literature.  
b) English courses in which students receive a grade below C- will not count toward fulfilling this requirement.  
c) No more than one course in creative writing (ENGLISH 312, ENGLISH 315, ENGLISH 339, ENGLISH 429B, ENGLISH 432WI, ENGLISH 435WI, ENGLISH 436WI, ENGLISH 437WI, ENGLISH 438) and no courses in journalism (ENGLISH 303WI, ENGLISH 323WI, ENGLISH 401WI, ENGLISH 402) or expository writing (ENGLISH 301WI, ENGLISH 304WI, ENGLISH 305WI, ENGLISH 307WI, ENGLISH 308, ENGLISH 309WI, ENGLISH 450) may be counted toward the basic 36-hour requirement for the regular English major.  
d) Please see the Director of Undergraduate Studies to apply for the Capstone course. Approval for ENGLISH 499 is required by a tenure-line faculty member and the Director of Undergraduate Studies.  
e) Please see the Director of Undergraduate Studies to check which courses are eligible for the Capstone course and to be informed of the criteria used to grade Capstone projects.
f) All students must complete a Capstone contract signed by the instructor and submitted to the Director of Undergraduate Studies before the end of the third week of the semester in which the Capstone course is being taken. Approval of the Capstone course is required for enrollment.

Bachelor of Arts: English Emphasis in Creative Writing

Requirements for the Bachelor of Arts: English, Creative Writing Emphasis

This emphasis area is designed for students interested in writing, as well as literary study. To graduate with a creative writing emphasis, students must take the following 36-hour program. At least 18 of the 36 required credit hours listed below must be taken within the English department at UMKC (a):

The following course (3 credits):
ENGLISH 323 Shakespeare

One of the following (3 credits):
ENGLISH 213 Introduction to Drama
ENGLISH 214 Introduction to Fiction
ENGLISH 215 Introduction to Poetry

One of the following sequences (6 credits):
ENGLISH 311/321 American Literature I/II
ENGLISH 317/327 British Literature I/II
ENGLISH 331/333 African American Literature I/II

One of the following (3 credits):
ENGLISH 310 Introduction to Linguistics Language Science
ENGLISH 320 Structure of English
ENGLISH 330 History of the English Language

One of the following (3 credits):
ENGLISH 305WI Theory and Practice of Composition
ENGLISH 307WI Language, Literacy, Power

ENGLISH 308 Rhetorics of New Media
ENGLISH 309WI Rhetorics of Public Memory
ENGLISH 342WI Women and Rhetoric
ENGLISH 445 History and Principles of Rhetoric

One of the following (3 credits):
ENGLISH 300 Clio & The Other Muses: Hist & Culture 5th-Century Athens
ENGLISH 300CD American Social Film: Silver Screen American Dream
ENGLISH 300CE Radical Changes Since 1945
ENGLISH 300CQ Race in American Film
ENGLISH 300CW Critical Issues in Women's and Gender Studies
ENGLISH 300CY Ancient World/Cinema
ENGLISH 318 Bible as Literature
ENGLISH 319 Myth and Literature
ENGLISH 325 Arthurian Legends
ENGLISH 326 Modern and Contemporary Irish Literature
ENGLISH 331 African American Literature I
ENGLISH 332WI African American Novel
ENGLISH 333 African American Literature II
ENGLISH 336 Contemporary American Literature
ENGLISH 340A Classical Literature in Translation
ENGLISH 342WI Women And Rhetoric
ENGLISH 344WI Women & Literary Culture: Genre Focus
ENGLISH 345WI Women And Literary Culture: Historical Focus
ENGLISH 350 The 18th Century Novel
ENGLISH 355 The Novel Before 1900
ENGLISH 356 Studies in Poetry
ENGLISH 360 The Modern Novel
ENGLISH 365 Contemporary Novel
ENGLISH 375 Colonial Literature
ENGLISH 378 Asian American Literature
ENGLISH 400CA Cluster Course: Images of the Human Body in Renaissance
ENGLISH 400CF Courts and Culture in the Middle Ages
ENGLISH 400CQ Sinai And Olympus: Two Views Of Man And God
ENGLISH 404 Old English
ENGLISH 408 Harlem Renaissance
ENGLISH 410 Black Women Writers
ENGLISH 412 Chaucer
ENGLISH 413 Renaissance Literature I
ENGLISH 414 Milton
ENGLISH 415 Restoration and Early 18th-Century British Literature
ENGLISH 416 The Romantic Period
ENGLISH 417 Modern Poetry
ENGLISH 418 19th-Century American Literature
ENGLISH 422 Medieval Literature
ENGLISH 423 Renaissance Literature II
ENGLISH 425 18th-Century British Literature II
ENGLISH 426 The Victorian Period
ENGLISH 427 Contemporary Poetry
ENGLISH 428 20th-Century American Literature
ENGLISH 431 Late 18th-Century British Literature
ENGLISH 433 Histories Of Writing, Reading, and Publishing
ENGLISH 434 Postcolonial Literature
ENGLISH 440 American Culture
ENGLISH 441 Girls And Print Culture
ENGLISH 451 Shakespeare Comedies and Histories
ENGLISH 452 Early English Drama
ENGLISH 453 Modern Drama, 1880-1945
ENGLISH 455 Studies in the Novel 1740-1900
ENGLISH 461 Shakespeare Tragedies and Romances
ENGLISH 462 Restoration and 18th-Century Drama
ENGLISH 463 Contemporary Drama II
ENGLISH 465 Studies In The Modern Novel

One of the following sequences (6 credits):
ENGLISH 312 / ENGLISH 432WI Creative Writing I Fiction and Advanced Creative Writing Prose
ENGLISH 312 / ENGLISH 437WI Creative Writing I Fiction and Prose Forms
ENGLISH 315 / ENGLISH 436WI Creative Writing Poetry and Poetic Forms
ENGLISH 315 / ENGLISH 435WI Creative Writing Poetry and Poetic Forms and Advanced Creative Writing Poetry

Two additional writing courses not included above (6 credits):
ENGLISH 312 Creative Writing I Fiction
ENGLISH 315 Creative Writing Poetry
ENGLISH 339 Introduction to Screenwriting
ENGLISH 429 Advanced Screenwriting
ENGLISH 432WI Advanced Creative Writing Prose
ENGLISH 435WI Advanced Creative Writing Poetry
ENGLISH 436WI Poetic Forms
ENGLISH 437WI Prose Forms
ENGLISH 438 The New Letters Writing Conference
ENGLISH 448 External Internship
ENGLISH 449A Publication Practicum
COMM-ST 339 Film Theory & Criticism
COMM-ST 351WI Fundamentals of Writing for the Media

The following may also qualify as additional writing courses (b):
ENGLISH 442 Playwriting I
ENGLISH 443 Playwriting II
ENGLISH 303WI Introduction to Journalism
ENGLISH 313WI Reporting
ENGLISH 316WI Literary Nonfiction
ENGLISH 339 Creative Writing: Screenwriting
ENGLISH 401WI Feature Writing
ENGLISH 429B Advanced Creative Writing: Screenwriting

Capstone experience - One of the following (3 credits):
ENGLISH 432WI Advanced Creative Writing Prose
ENGLISH 435WI Advanced Creative Writing Poetry
ENGLISH 436WI Poetic Forms
ENGLISH 437WI Prose Forms
ENGLISH 499 Senior Tutorial (c)

(a) English courses in which students receive a grade below C- will not count toward fulfilling this requirement.
(b) Requires approval of the Director of Undergraduate Studies or the Director of Creative Writing.
(c) Students must complete a poetry or prose sequence with distinguished work before applying to the instructor for permission to take this course. Permission of the Director of Undergraduate Studies or the Director of Creative Writing is required.

By the time a student completes the Program of Study in the Creative Writing Emphasis s/he should be able to demonstrate:
1. A thorough understanding of poetics or storytelling craft through the production of creative works that are structurally sound, polished, and complete.
2. Effective problem-solving and revision strategies in the composition of poems or stories.
3. A strong, deliberate command of style, grammar, and mechanics.
4. A general knowledge of literary history, especially the literary traditions of their chosen genre.
5. The ability to analyze texts critically and the ability to recognize how a text displays a writer's artistic decisions.
6. A working vocabulary with which to discuss the technical and aesthetic aspects of their craft.

Minor in Language and Literature

Language and Literature Minor (21 credit hours)
The minor in Language and Literature is designed for students desiring a general background in English. Students must take the following courses (a):
All of the following (9 credits)
ENGLISH 311 American Literature I
ENGLISH 317 Introduction to British Literature I
ENGLISH 323 Shakespeare

One of the following (3 credits):
ENGLISH 321 American Literature II
ENGLISH 327 British Literature II
ENGLISH 331 African American Literature I
ENGLISH 333 African American Literature II

One of the following (3 credits):
ENGLISH 310 Introduction to Linguistics/Language Science
ENGLISH 320 Structure of English
ENGLISH 330 History of the English Language
ENGLISH 342WI Women and Rhetoric
ENGLISH 445 History and Principles of Rhetoric
ENGLISH 470 Introduction to Descriptive Linguistics

Two additional courses in literature or linguistics, at least one of which must be at the 300 level or above (6 credits)
(a) English courses in which students receive a grade below C- will not count toward fulfilling these requirements.

Minor in Creative Writing
Creative Writing Minor (21 credit hours)
This minor is designed for students who are eager to give focused attention to developing their talents in poetry or fiction writing. Students must complete the following requirements (a):

One genre course in creative writing (3 credits):
ENGLISH 214 Introduction to Fiction
-or-
ENGLISH 215 Introduction to Poetry
Students are expected to elect the course that will prepare for a concentration in poetry or fiction.

One writing sequence in poetry or fiction (6 credits):
ENGLISH 312 / ENGLISH 432WI: Creative Writing I Fiction/ Advanced Creative Writing Prose
ENGLISH 312 / ENGLISH 437WI: Creative Writing I Fiction/ Prose Forms
ENGLISH 315 / ENGLISH 435WI: Creative Writing Poetry/ Advanced Creative Writing Poetry
ENGLISH 315 / ENGLISH 436WI: Creative Writing Poetry/ Poetic Forms

Two additional courses in creative writing, in addition to those taken for the writing sequence (6 credits):
ENGLISH 442 Playwriting I
ENGLISH 443 Playwriting II
ENGLISH 312 Creative Writing I Fiction
ENGLISH 315 Creative Writing Poetry
ENGLISH 316WI Literary Nonfiction
ENGLISH 339 Creative Writing: Screenwriting
ENGLISH 405 Magazine Editing
ENGLISH 429B Creative Writing: Advanced Screenwriting
ENGLISH 432WI Advanced Creative Writing Prose
ENGLISH 435WI Advanced Creative Writing Poetry
ENGLISH 436WI Poetic Forms
ENGLISH 437WI Prose Forms
ENGLISH 438 The New Letters Writing Conference
ENGLISH 448 External Internship
ENGLISH 449B Advanced Creative Writing: Screenwriting
ENGLISH 499 Senior Tutorial (b)

Some courses in Communication Studies, Theatre, or Foreign Languages may also be applicable with the permission of the Director of Undergraduate Studies or the Director of Creative Writing.

Two courses focused on literature (6 credits):
ENGLISH 311 American Literature I
ENGLISH 317 British Literature I
ENGLISH 321 American Literature II
ENGLISH 323 Shakespeare
ENGLISH 325 Arthurian Legends
ENGLISH 326 Modern and Contemporary Irish Literature
ENGLISH 327 British Literature II
ENGLISH 331 African American Literature I
ENGLISH 332WI African American Novel
ENGLISH 333 African American Literature II
ENGLISH 336 Contemporary American Literature
ENGLISH 342WI Women And Rhetoric
ENGLISH 344WI Women and Literary Culture: Genre Focus
ENGLISH 345WI Women And Literary Culture: Historical Focus
ENGLISH 350 The 18th Century Novel
ENGLISH 355 The Novel Before 1900
ENGLISH 356 Studies in Poetry
ENGLISH 360 The Modern Novel
ENGLISH 365 Contemporary Novel
ENGLISH 375 Colonial Literature
ENGLISH 378 Asian American Literature
ENGLISH 404 Old English
ENGLISH 408 Harlem Renaissance
ENGLISH 410 Black Women Writers
ENGLISH 412 Chaucer
ENGLISH 413 Renaissance Literature I
ENGLISH 414 Milton
ENGLISH 415 Restoration and Early 18th-Century British Literature
ENGLISH 416 The Romantic Period
ENGLISH 417 Modern Poetry
ENGLISH 418 19th-Century American Literature
ENGLISH 422 Medieval Literature
ENGLISH 423 Renaissance Literature II
ENGLISH 425 18th-Century British Literature II
ENGLISH 426 The Victorian Period
ENGLISH 427 Contemporary Poetry
ENGLISH 428 20th-Century American Literature
ENGLISH 431 Late 18th-Century British Literature
ENGLISH 433 Histories Of Writing, Reading, and Publishing
ENGLISH 434 Postcolonial Literature
ENGLISH 440 American Culture
ENGLISH 441 Girls And Print Culture
ENGLISH 451 Shakespeare Comedies and Histories
ENGLISH 452 Early English Drama
ENGLISH 453 Modern Drama, 1880-1945
ENGLISH 455 Studies in the Novel 1740-1900
ENGLISH 461 Shakespeare Tragedies and Romances
ENGLISH 462 Restoration and 18th-Century Drama
ENGLISH 463 Contemporary Drama II
ENGLISH 465 Studies In The Modern Novel

(a) English courses in which students receive a grade below C- will not count toward fulfilling these requirements.
(b) Students must complete the writing sequence in poetry or prose before applying to the instructor for permission to take ENGLISH 499. Permission of the Director of Undergraduate Studies is required.

Minor in Writing

Writing Minor (18 credit hours)
The writing minor requires that students take the following 18-hour program (a):

Students must complete six of the following courses. No more than two courses in poetry and/or fiction may be counted toward the writing minor.

ENGLISH 442 Playwriting I
ENGLISH 443 Playwriting II
ENGLISH 301WI Writing and the Academy
ENGLISH 303WI Introduction to Journalism
ENGLISH 304WI Writing and Technology
ENGLISH 305WI Theory and Practice of Composition
ENGLISH 307WI Language, Literacy, Power
ENGLISH 308 Rhetorics of New Media
ENGLISH 309WI Rhetorics of Public Memory
ENGLISH 312 Creative Writing I Fiction
ENGLISH 313WI Reporting
ENGLISH 315 Creative Writing Poetry
ENGLISH 316WI Literary Nonfiction
ENGLISH 339 Creative Writing: Screenwriting
ENGLISH 342WI Women and Rhetoric
ENGLISH 401WI Feature Writing
ENGLISH 405 Magazine Editing
ENGLISH 429B Advanced Creative Writing: Screenwriting
ENGLISH 432WI Advanced Creative Writing Prose
ENGLISH 435WI Advanced Creative Writing Poetry
ENGLISH 436WI Poetic Forms
ENGLISH 437WI Prose Forms
ENGLISH 445 Histories and Principles of Rhetoric

Other WI courses may count toward the minor in writing with the permission of the Director of Undergraduate Studies or the Composition Committee.
(a) English courses in which students receive a grade below C- will not count toward fulfilling these requirements.

Minor in Manuscript, Print Culture, and Editing

**Manuscript, Print Culture, and Editing Minor (21 credit hours)**

The Manuscript, Print Culture, and Editing minor examines the social, cultural, economic, and political history of the written word. It considers relationships among authors, editors, publishers, printers, illustrators, and booksellers as well as the reception of texts by readers, reviewers, and critics. This minor allows students to study the production of texts through the centuries while also gaining hands-on editing experience through internal and external publishing internships. Students will take a wide variety of courses covering a range of historical periods that have a significant emphasis on the history of reading, writing, and authorship as well as courses that focus on aspects of contemporary publishing and editing.

**One of the following (3 credits)**
ENGLISH 311 American Literature I  
ENGLISH 317 British Literature I  

**One of the following (3 credits):**
ENGLISH 321 American Literature II  
ENGLISH 327 British Literature II  
ENGLISH 331 African American Literature I  
ENGLISH 333 African American Literature II  

**One of the following (3 credits):**
ENGLISH 310 Introduction to Linguistics  
ENGLISH 320 Structure of English  
ENGLISH 330 History of the English Language  

**FOUR of the following (12 credits):**
ENGLISH 405 Magazine Editing  
ENGLISH 433 Histories of Reading, Writing, and Publishing (repeatable with different focus)  
ENGLISH 441 Girls and Print Culture (repeatable with different focus)  
ENGLISH 464 Medieval Methods and Paleography  
ENGLISH 448 External Internship*  
ENGLISH 449A Publication Practicum  
ENGLISH 449B Publication Practicum

The following courses may also be used to fulfill the requirements for the concentration in Magazine, Print Culture, and Editing when the instructor elects this designation. Each semester, courses so designated will be listed on the Department of English website:

ENGLISH 408, ENGLISH 410, ENGLISH 412, ENGLISH 413, ENGLISH 414, ENGLISH 415,  
ENGLISH 416, ENGLISH 417, ENGLISH 418, ENGLISH 422, ENGLISH 423, ENGLISH 425,  
ENGLISH 426, ENGLISH 427, ENGLISH 428, ENGLISH 431, ENGLISH 434, ENGLISH 440,  
ENGLISH 445, ENGLISH 451, ENGLISH 452, ENGLISH 453, ENGLISH 455, ENGLISH 461,  
ENGLISH 462, ENGLISH 463, ENGLISH 465.

*External Internship must be coordinated with a publishing house and approved by the Director of Undergraduate Studies.
Environmental Studies
Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 420
(816) 235-1334
Fax: (816) 235-5535
geosciences@umkc.edu
http://cas.umkc.edu/geo

Mailing Address
University of Missouri-Kansas City
Department of Geosciences
RHFH 420
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair: James B. Murowchick

Professors:
Raymond M. Coveney, Jr., Steven L. Driever (principal undergraduate geography adviser), Syed E. Hasan (director, CAER), Wei Ji (graduate geography adviser and GIS program director), Tina M. Niemi (principal undergraduate geology adviser)

Associate Professors: Jimmy O. Adegoke, Caroline P. Davies (undergraduate BS environmental studies adviser; director, environmental studies program), Daniel P. Hopkins (undergraduate BA environmental studies adviser), Jejung Lee (principal graduate adviser; IPhD coordinator), James B. Murowchick (chair)

Assistant Teaching Professors: Julie L. Urbanik


- Department Description
- Special Resources/Services
- Undergraduate Admission Requirements
- Natural Science/Social Sciences Area Requirements
- Career for Geography, Geology and Environmental Studies Graduates
- Departmental Activities
- Financial Aid and Transportation Costs

Environmental Studies Program
- Program Description
- Student Learning Outcomes
- Bachelor of Science: Environmental Science
- Bachelor of Arts: Environmental Studies
- Environmental Studies Minor
- Environmental Sustainability Minor

Geography and Geology Programs
• Program Description
• Student Learning Outcomes
• Bachelor of Science/Bachelor of Arts: Geography
• Bachelor of Science/Bachelor of Arts: Geology
• Geography and Geology Minors
• Advanced Certificate Program in GIS

Courses
• Environmental Science (ENV-SCI)
• Environmental Studies (ENV-STDY)
• Geography (GEOG)
• Geology (GEOLOGY)
**Family Studies**
Haag Hall, Room 208
5100 Rockhill Road
(816) 235-2529

Program Director: Deborah B. Smith, Associate Professor, Department of Sociology, (816) 235-2529

**Family Studies Minor**

Through its Family Studies Program, the College of Arts and Sciences offers a family studies minor for matriculated undergraduate students interested in the welfare and empowerment of American families. This interdisciplinary academic curriculum introduces participants to the sociological and psychological foundations of families, as well as the historical, political and social climates in which they exist. Students who complete the 18-hour (nine hours core and nine hours elective) course of study will have expanded career opportunities in areas such as human services, health care, law, communications, program development and academic research.

Students wishing to complete a minor must declare their intention to their adviser. Completion of the minor is recorded on the student's transcript.

The following classes can be used toward the nine credit hours of core requirements:

- SOCIOL 310R Families and the Life Course or PSYCH 453P Family Life Cycle: Developmental Approach to Understanding Family Dynamics (Note: These two classes are equivalent. Do not take both SOCIOL 310R and PSYCH 453P.)
- SOCIOL 211 Social and Psychological Development Through the Life Cycle
- PSYCH 322 Child Psychology (Note: PSYCH 210 is a prerequisite for this course.)
- Other classes can be used toward the required nine credit hours of electives for the family studies minor.

For a list of classes fulfilling the Family Studies Minor elective requirements each semester, please consult the website: [http://cas.umkc.edu/familystudies/fspminor.asp](http://cas.umkc.edu/familystudies/fspminor.asp) or contact the Family Studies Program Director.
Foreign Languages and Literatures
Department of Foreign Languages and Literatures
Scofield Hall, Room 216
711 E. 51 Street
(816) 235-1311
Fax: (816) 235-1312
frn-lg@umkc.edu
http://cas.umkc.edu/foreignlanguages

Mailing Address
University of Missouri-Kansas City
Department of Foreign Languages and Literatures
Scofield Hall, Rm 216
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair: K. Scott Baker

Professors Emeriti: Patricia P. Brodsky, Rafael Espejo-Saavedra, Iman O. Khalil, Timothy A.B. Richards, Raymond T. Riva, Herwig G. Zauchenberger

Professors: Louis Imperiale, Kathy M. Krause

Associate Professors: K. Scott Baker (chair), Gayle Levy, Larson Powell, Alice R. Reckley Vallejos

Assistant Professors: Matthew Edwards, Nacer Khelouz, Alberto Villamandos

Assistant Teaching Professors: Lindsy Myers

- Department Description
  - Career Implications
  - Higher Educational Applications
  - Special Resources
- Suggested Four-Year Plan of Study for the B.A. Degree
- Requirements for Teacher Certification in Foreign Languages
- Bachelor of Arts: French, German, or Spanish
  - Student Learning Outcomes
  - Program Requirements
- Minor in French, German, or Spanish
- Minor in German Studies
- Undergraduate Courses

Foreign Language
- Arabic
- Chinese
- French
- German
- Greek
Department Description
The Department of Foreign Languages and Literatures offers programs of study leading to the bachelor of arts degree in French, German and Spanish and graduate-level work leading to a master of arts in romance languages and literatures (French and Spanish). In addition, undergraduate minors are offered in French, German, German Studies and Spanish. Language instruction also is offered in Arabic, Chinese, Greek, Italian and Latin.

Career Implications
Aside from pursuing teaching careers, holders of degrees in foreign languages are in demand by government, the media and international business in growing numbers, as the need for increased sophistication and expertise in international affairs continues to expand. Multinational companies and organizations now view foreign language skills as an asset in a prospective employee. In the past 10 years this notion has become widespread in such areas as business, industry, commerce, civil service, education, law, communications media and health services. The changing conditions of international economics, politics and communications indicate that this trend will continue.

Higher Educational Applications
Reading knowledge of a foreign language is a requisite for many graduate degrees. Foreign language proficiency, moreover, is gaining increasing importance on all levels of university instruction as curricula are internationalized. Scholars and professionals in many fields have long recognized the need for, and advantages of, foreign language competency for improved international communication and effective conduct of basic and applied research.

Special Resources
Study Abroad
UMKC has exchange and study agreements with other institutions in many parts of the world. Students have an opportunity to spend a year or a semester of study at the University of Seville in Spain, the University of Lyon II in France, the University of Klagenfurt in Austria and the University of Veracruz in Xalapa, Mexico. Summer programs are held at the University of Veracruz, Mexico; the University of Granada, Spain; and the University of Lyon II, France. The department encourages students to travel and study abroad on our programs or those offered by any accredited American university. It should be noted, however, that the department must approve in advance any courses taken abroad for major or graduate credit. Interested students should contact the appropriate departmental adviser.

Language Resource Center
A modern facility housing audio, video and computer equipment and both general use and specialized software is located in 109 Scofield Hall. The purpose of the lab is to supplement and support in-class foreign language learning. Tutoring services for students of French, German and Spanish are provided free of charge. Conversation hours are also held in the Language Resource Center. All language students are encouraged to take advantage of the resources of the LRC.

**Suggested Four-Year Plan of Study for the B.A. Degree**

**Year I**

**First Semester**

<table>
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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>110* (not counted toward major/minor hours)</td>
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<td>Curricular Requirements and Electives</td>
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**Second Semester**

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<th>Hours</th>
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<td>120* (not counted toward major/minor hours)</td>
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**Year II**

**First Semester**

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<th>Hours</th>
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<td>211*</td>
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**Second Semester**

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**Year III**

**First Semester**

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<th>Hours</th>
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<td>300/400 Literature and Civilization</td>
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<td>Curricular Requirements and Electives</td>
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**Second Semester**

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<tr>
<th>Hours</th>
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<tr>
<td>325*</td>
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<tr>
<td>300/400 Literature and Civilization</td>
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**Year IV**

**First Semester**

<table>
<thead>
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<th>Hours</th>
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<tbody>
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<td>415*</td>
</tr>
<tr>
<td>400 Literature</td>
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</tbody>
</table>
499* Senior Seminar (Spanish) - Fall 3
Electives 6-9

Second Semester

425 3
400 Literature 3-6
499* Senior Seminar (French, German) - Spring 3
Electives 6-9

* Required course (or equivalent skill-level: students should not take classes below their skill-level - see information on Placement Testing)

Requirements for Teacher Certification in Foreign Languages
Certification as a Foreign Language teacher (K-12) in either Kansas or Missouri requires that a student complete specific requirements in Spanish, French or German and the School of Education. A separate application for teacher education is required. For further information about the program, contact Dr. Reckley Vallejos, reckleya@umkc.edu, and the School of Education at (816) 235-2234.

Master of Arts: Romance Languages

M.A. in romance languages, with an emphasis in either French or Spanish
Students graduating with an M.A. in romance languages will:

- Obtain specialized knowledge of either Hispanic or French and Francophone cultures, especially of their literatures as foundational paradigms for inquiry into language and cultural phenomena.
- Develop skill in reflective inquiry.
- Analyze cultural products, process and perspectives with a variety of interpretive strategies.
- Attain superior reading, writing, listening and speaking proficiency in the primary language studied, and intermediate reading proficiency in the secondary language studied.

The master of arts degree program provides necessary training in French or Spanish language and literature for those who want to teach those languages at the secondary school or junior college level. It also serves students who plan to continue with studies at the doctoral level. Other employment opportunities can be found in government, business and industry, publishing houses, foundations, etc.

Admission Requirements
A bachelor's degree from an accredited institution with a 3.0 (B) grade-point average in the subject area and a 2.75 overall GPA is required for admission.
The Graduate Record Examination (Advanced Achievement) is recommended, and two letters of recommendation are required. Students' transcripts with accompanying data are carefully evaluated. Applicants with inadequate preparation may be required to make up deficiencies by taking more than the standard 30 hours of coursework.
Courses taken prior to admission into a graduate program will not count for graduate credit.

Requirements for Retention
If students' graduate grade-point averages fall below 3.0 (B), they may take coursework only on the 300 and 400 levels until a 3.0 graduate grade-point average has been achieved. Coursework completed under this condition will not count toward the master's degree.
Transfer Credit
No more than 6 hours of transfer credit are normally allowed toward degree requirements.

Advising
Students interested in pursuing a master's degree in Romance languages should meet with the appropriate principal graduate adviser before beginning studies:

French: Kathy M. Krause (816) 235-1340, krausek@umkc.edu
Spanish: Louis Imperiale, (816) 235-2822, imperialel@umkc.edu

In consultation with the adviser, a course of study will be planned listing the courses that will satisfy requirements for the degree. Prior to registration at least once each year, candidates must meet with their advisers for approval of their course programs. They also must seek their adviser's endorsement whenever a change in the agreed course of study is necessary.

M.A. Degree Requirements
1. Students must earn 30 graduate credit hours to complete the M.A. in Romance Languages. Of these credits, at least 21 hours must be at the graduate level (courses numbered 5500 and above). When appropriate and/or necessary, students may count up to 9 hours of 400-level courses taken while enrolled as a graduate student towards the M.A. A minimum GPA of 3.0 is required in all graduate work. Students must take courses in a variety of areas, genres and periods in order to achieve both breadth and depth of knowledge. See below for specific course and distribution requirements for each emphasis area (Spanish & French). Students must obtain approval of their study programs by the graduate adviser for their area at least once a year.

2. Students must demonstrate ability to read, speak and write, idiomatically and with accuracy, the language in which the M.A. degree is being pursued.

3. Final Examination: Students must take a final examination consisting of both written and oral sections. See details below for each emphasis area.

4. Second Language Proficiency: In addition to the mastery of the target language, students must demonstrate a reading knowledge of a second language in one of the following ways:
   - Taking a reading examination in French, Spanish, Italian, German or Latin administered or approved by the department or given by the Educational Testing Service.
   - Achieving a grade of 3.0 (B) or better in a 211 (3 credit hour), or equivalent, language course.
   - Achieving a grade of 2.0 (C) or better in each of two 300-level courses or in one 400-level literature or civilization course taught in the second language.

M.A. in Romance Languages: French emphasis
1. Distribution of courses
   A. Students will choose courses covering five out of the seven following periods or fields:
      i. Medieval/Early Modern
      ii. Renaissance
      iii. 17th and 18th Centuries
      iv. 19th Century
      v. 20th and 21st Centuries
      vi. Linguistics or Pedagogy
      vii. Francophonie
   B. In addition, as part of their 30 credit hours of study, students will take one course in advanced French stylistics.
2. Exams. The final exam will be comprised of a written and an oral portion.
   A. Written exam
i. In consultation with the French faculty, students will draw up a list of eight subjects covering most periods/fields and one *explication de texte* of a poem.

ii. The written exam will consist of 2-3 questions, written by the faculty and based on the subjects from the student's list. The student will have two hours in which to write the essays. No notes are allowed, but the student may consult the texts during the exam.

B. Oral exam

On a subsequent day, the student will take the one-hour oral exam, which will consist of the *explication de texte* and follow-up questions to the written exam. The student may bring brief notes, on index cards, to help in the *explication de texte*.

**M.A. in Romance Languages: Spanish emphasis**

1. Distribution of courses

A. Students will choose courses covering six out of the eight following periods or fields:
   i. Medieval/Early Modern
   ii. Golden Age
   iii. 18th and 19th Centuries
   iv. 20th and 21st Centuries
   v. Spanish or Romance Linguistics
   vi. Foreign Language Pedagogy
   vii. Pre-Columbian / Indigenous/ Colonial Literature
   viii. U.S.-Latino Studies

B. In addition, a student's coursework must include at least one course in each general category of Peninsular or Latin American.

2. Exams. The final exam will be comprised of a written and an oral portion.

A. Written Exam

Questions will be based on a reading list prepared in advance by the students and their graduate adviser, based on the periods and fields covered in all their graduate courses; it will consist of 15 (out of 30 possible) identifications, two short and two long essays. The student will have four hours in which to write the essays. No notes, texts or dictionaries will be allowed.

B. Oral Exam

On a subsequent day, the student will take the one-hour oral exam, which will consist of a textual analysis. Prior to the exam, the student will be given a text and will have 30 minutes to prepare the analysis.

**Bachelor of Arts: French, German, Spanish**

Learning outcomes are aligned with national and state standards on language and cultural understanding, and on national standards for language skill as reflected in the American Council on the Teaching of Foreign Language proficiency guidelines:

- To attain advanced reading, writing, listening and speaking proficiency in the language studied.
- To obtain a broad base of knowledge and perspectives on French-, German- or Spanish-speaking civilizations, and of their respective cultures—literature, the arts, socio-historical, political and economic structures, etc.—within a variety of interpretive frameworks.
- To understand and articulate cultural practices and process as dynamic elements in the construction of identity, and to appreciate and encourage cultural diversity in human endeavor.
- To understand aspects of language and culture in the world as part of all human communication, and within interdisciplinary contexts.
- To develop skills in critical thinking and analysis, including, but not limited to, textual analysis.
Foreign Language Requirements
1. Undergraduate General Education Requirements.
2. Credit by examination
3. Graduate and Doctoral students may be required to demonstrate satisfactory completion of foreign language proficiency through accepted coursework or other evidence. Students should check with their academic unit about specific foreign language proficiency requirements.

 Attendance and Course Level

Class attendance
The nature of language acquisition is such that regular attendance, throughout the semester, is expected of all students enrolled for credit.

Course Levels
Course levels are generally indicated by the first digit of the course number. For example, 100-level courses are first-year courses, 200-level classes represent second-year courses, etc. Accordingly, students entering a 200-level French course must have completed FRENCH 110 and FRENCH 120, their equivalent, or show proof of second-year skill-level (such as Placement Test score). Successful completion of a second-year course (normally 211 and 221, their equivalent, or proof of appropriate skill-level) is required of all students who want to enroll in 300- or 400-level courses. Exceptions must have the approval of the student's foreign language adviser.

The Department of Foreign Languages and Literatures offers a program of study leading to the bachelor of arts in French, German or Spanish.

Undergraduate Advisers:

French: Lindsy Myers (816) 235-2826, myersll@umkc.edu

German:
K. Scott Baker (816) 235-2823, bakerks@umkc.edu
Larson Powell(816) 235-1316, powelllar@umkc.edu

Spanish: Alberto Villamandos (816) 235-2324, villamandosa@umkc.edu

General Information
Initial Advising and Placement
A language placement exam is strongly recommended for all students with previous foreign language experience in French, German or Spanish. The placement exam or the recommendation of a foreign language adviser will best determine a student's level, contributing to his or her success. Contact the department office for more information. Placement test website:http://cas.umkc.edu/ForeignLanguages/PlacementExam.asp

Consultation with an adviser is recommended for students who intend to major or minor in foreign languages.
Transfer Credit
Transfer students normally may expect to continue their foreign language study at the next comparable level. On consultation with their advisers or the course instructors, and after taking the placement exam, students may be advised to do either remedial or more advanced coursework. No more than nine hours of transfer credit for 200- to 400-level courses are normally allowed toward degree requirements. Credit for study at a foreign institution will be granted, provided the courses proposed for study abroad have been approved in advance by a departmental adviser and endorsed by the chair of the department. When advance endorsement for credit is not obtained from the department, the credit is subject to approval by the department chair.

In cases where students have been engaged in an extended period (e.g., a year) of formal study at an approved academic institution abroad, transfer credit of more than nine hours may be granted, if approved by the chair of the department.

Credit by Examination
Beginning-level courses (110, 120) are not applicable toward requirements for the major. College credit for them may be earned by examination.

CLEP credit is available for the first 10 hours of French, German or Spanish (110 and 120). Contact Testing Services to arrange for the exam. A passing score is necessary to receive credit. (No more than 30 of a student's total hours may be earned by examination, and students with senior standing cannot earn credit via CLEP.)

Departmental testing or "Credit by Examination," is also available for 211-level credit. Students should first speak to the appropriate section coordinator for 2nd-year courses. The form is available online at http://www.umkc.edu/registrar/forms/credit_by_exam.pdf. A minimum grade of C is necessary to receive credit.

Degree Requirements
Students may choose to major in French, German or Spanish or to pursue a double major by satisfying requirements in each of two languages and literatures, or in a language plus another discipline. The department recommends study of a second foreign language and relevant work in other disciplines such as English, history, art history, etc.

In consultation with the adviser, a course of study will be devised listing required courses, credits received and courses that still need to be taken to satisfy requirements for the degree. It will be signed by the student and the adviser. Majors must consult with their departmental advisers before registration. They also must seek their adviser's consent whenever a change in the agreed course of study is necessary. The following departmental requirements must be met:

1. Students must complete a minimum of 30 credit hours beyond 110 and 120 in the same language and literature. Normally, at least 18 of the 30 hours required for the major must be taken in this department. For more details concerning 300- and 400-level course requirements for degrees in French, German and Spanish, see #4-8 below.
2. Special arrangements for study-abroad credit can be made with the chair on a case-by-case basis.
3. A 2.0 grade-point average in the major is required for graduation.
4. Composition and conversation courses through at least 415 are required and 425 is highly recommended. Prospective teachers in Spanish must take SPANISH 425.
5. Native speakers majoring in their own languages will complete a minimum of 21 credit hours in courses numbered 300 and above, but normally not including 315 or 325. A native speaker is
defined as a person who speaks the target language fluently and who has completed formal schooling through the secondary school level, or equivalent, in the target language.

6. French majors must complete a total of 15 credit hours of 300- and 400-level literature and civilization courses. Of these, nine credit hours must be at the 400 level and must include the Senior Seminar (Capstone) course, FRENCH 499.

7. German majors must complete at least 15 hours of 300- and 400-level literature and culture courses, including the Senior Seminar (Capstone) course, GERMAN 499.

8. Spanish majors must complete at least 15 hours of literature and civilization courses, of which at least six hours must be at the 400 level and must include the Senior Seminar (Capstone) course, SPANISH 499.

9. FRENCH 435 and GERMAN 304 and GERMAN 340 do not count toward a major.

10. Certain cluster courses may be counted toward the language major, to be determined through consultation with the course instructor and the foreign language chair.

**German Studies Minor**
The German Studies minor consists of 18 hours selected from the list of approved courses, of which a minimum of 6 credits must be in German Language and a minimum of 9 credits must be upper-division coursework. Up to 6 credits may come from classes listed in the Associated Course List, but these courses apply only if the student’s project focuses on a German topic. A capstone project is also required. A maximum of six hours may apply to both a German minor and a German Studies minor.

Approved Course Offerings:
Foreign Languages and Literatures:
German Language
GERMAN 110, GERMAN 120: Elementary German I & II
GERMAN 211, GERMAN 221: Second-Year German I & II
GERMAN 315, GERMAN 325: Intermediate Conversation and Composition I & II
GERMAN 415, GERMAN 425: Advanced Conversation and Composition I & II

German Literature
GERMAN 301, Introduction to Literary Studies
GERMAN 307, From the Middle Ages to the Baroque
GERMAN 308, From the Enlightenment through the 19th Century
GERMAN 310, Classical Period of German Literature
GERMAN 340, Society and Literature in 20th-Century Germany (in English)
GERMAN 400, Rainer Maria Rilke
GERMAN 401, Bertolt Brecht
GERMAN 411, Romanticism
GERMAN 412, The German Novelle
GERMAN 421, 19th-Century Drama
GERMAN 422, Contemporary Drama
GERMAN 426, 20th-Century German Literature

German Culture and Film
GERMAN 304, Aspects of Contemporary German Culture (in English)
GERMAN 305, Current Events in Germany
GERMAN 306, Aspects of Contemporary German Culture
GERMAN 341, Survey of German Film 1920-1980 (in English)
GERMAN 342, Contemporary German Film 1980- (in English)
GERMAN 345, The Antifascist Tradition in Germany
GERMAN 453, Women’s Voices in Germany and Austria

Interdisciplinary Cluster Courses:
FRN-LNG 400CM/HISTORY 400CM, Nazi-Occupied Europe and The Holocaust
History:
HISTORY 300G/5500G, Holy Roman Empire
HISTORY 436R/536 Modern German History, 1890-1990
HISTORY 437AWI, Imperial Germanies, 1848-1918
HISTORY 437BWI, First German Republics, 1917-1935
HISTORY 437CWI, The Third Reich, 1930-1950
HISTORY 437DWI, Cold War Germanies, 1941-1991

Philosophy:
PHILOS 436, Kant

Associated Course Offerings:

Art History:
ART-HIST 301, 302, 303: Survey of Western Art
ART-HIST 415WI, Romanticism
ART-HIST 416WI, Later 19th Century Painting and Sculpture
ART-HIST 424, Early 20th Century European Painting and Sculpture
ART-HIST 445, Northern European Art: 15th and 16th Centuries
ART-HIST 449, Art and Architecture in the Age of Enlightenment

Interdisciplinary Cluster Courses:
HISTORY 400CF, Courts and Culture in the High Middle Ages
HISTORY 400CI, Culture, Kultur, Civilisation: Identity Formation in the Middle Class

History:
HISTORY 413/513, Renaissance
HISTORY 414/514, Reformation
HISTORY 415/515, 17th and 18th Century European History
HISTORY 417R/517, 19th Century European History
HISTORY 418R/518, 20th Century European History
HISTORY 419R/519, Contemporary European History: 1950-2000
HISTORY 430, The Ordeal of Total War: Europe 1900-1950

Musicology (Conservatory):
CONSVTY 5554, Medieval Music
CONSVTY 5557, Music of the Classical Era
CONSVTY 5558, Music of the Romantic Era
CONSVTY 5559A, Music since 1900: 1900-1945
CONSVTY 5560B, Nationalism

Philosophy:
PHILOS 332, Existentialism

Political Science:
POL-SCI 220, Introduction to Comparative Politics
POL-SCI 451, International Politics in Europe

**The Minor: French, German, Spanish**
The growing need for experts in the international aspects of academic and professional fields has led to a renewed interest in the foreign language minor as a complement to a student's training in a major field. In increasing numbers, students completing baccalaureate degrees in the Henry W. Bloch School of Business and Public Administration, in the Conservatory of Music and in other departments of The College of Arts and Sciences have selected a course of study that includes a minor in a foreign language. Majors in all fields are urged to discuss this possibility with their advisers.
Requirements for Program Minor
An academic minor in a given language requires a minimum of 18 hours consisting of six hours of second-year courses or above plus 12 hours of courses at the 300 and 400 levels. FRENCH 435 and GERMAN 304 do not count toward a minor.
Geosciences (Geology, Geography, Environmental Studies)
Department of Geosciences
Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 420
(816) 235-1334
Fax: (816) 235-5535
geosciences@umkc.edu
http://cas.umkc.edu/geo

Mailing Address
University of Missouri-Kansas City
Department of Geosciences
RHFH 420
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
James B. Murowchick

Professors:
Raymond M. Coveney, Jr., Steven L. Driever (principal undergraduate Geography adviser), Syed E. Hasan (Director, CAER), Wei Ji (graduate Geography adviser and GIS Program Director), Tina M. Niemi (principal undergraduate Geology adviser)

Associate Professors:
Jimmy O. Adegoke, Caroline P. Davies (undergraduate Environmental Science BS adviser; Director, Environmental Studies program), Daniel P. Hopkins (undergraduate Environmental Studies BA adviser), Jejung Lee (principal graduate adviser; IPhD coordinator), James B. Murowchick (Chair)

Assistant Teaching Professors:
Julie L. Urbanik

Professors Emeriti:
Richard J. Gentile, Paul L. Hilpman, Eldon J. Parizek

Department Description
Special Resources/Services
Undergraduate Admission Requirements
Natural Science/Social Sciences Area Requirements
Career for Geography, Geology and Environmental Studies/Science Graduates
Departmental Activities
Financial Aid and Transportation Costs
Environmental Studies Program
  • Program Description
Student Learning Outcomes
Bachelor of Arts: Environmental Studies
Bachelor of Science: Environmental Science
Environmental Studies Minor
Environmental Sustainability Minor
Geography and Geology Programs

- Program Description

Student Learning Outcomes

Bachelor of Science/Bachelor of Arts: Geography
Bachelor of Science/Bachelor of Arts: Geology

Geography and Geology Minors

Advanced Certificate Program in GIS

Undergraduate Courses

Environmental Science (ENV-SCI)
Environmental Studies (ENV-STDY)
Geography (GEOG)
Geology (GEOLOGY)

Graduate Programs

Graduate Certificate in Waste Management

Master of Science: Environmental and Urban Geosciences

Graduate Courses

Environmental Science (ENV-SCI)

Geography (GEOG)
Geology (GEOLOGY)

Department Description

The Department of Geosciences offers programs of study leading to bachelor of science degrees in Environmental Science, Geography, and Geology and bachelor of arts degrees in Environmental Studies, Geography and Geology. The department offers a master of science degree in Environmental and Urban Geosciences. The department also participates in the Interdisciplinary Ph.D. program. The department also offers a graduate-level Waste Management Certificate Program. Students who designate Geosciences (Environmental Studies, Geology or Geography focus) on their application for admission to the doctoral program must meet admission and other requirements available from the department. See the School of Graduate Studies section in the Graduate Catalog for more information about doctoral programs. The department takes a leading role in the undergraduate interdisciplinary Environmental Studies program. Courses offered by the department can be used to fulfill the requirements of the Missouri Department of Education for earth science, science-math, and social science teaching specialties.

Students majoring in Environmental Studies, Environmental Science, Geography, or Geology obtain a broad liberal arts education during their undergraduate career and at the same time receive sound fundamental training in the geosciences. Departmental faculty members are committed to educating non-majors about the earth and environmental sciences as well as those students who plan to pursue careers in the geosciences.

All undergraduate majors in the Department of Geosciences (including Environmental Studies) must maintain a minimum grade-point average above 2.0 in all courses taken to fulfill departmental degree requirements. This minimum GPA also applies to all credit hours transferred from other institutions.
Special Resources/Services

Geosciences Museum
The Geosciences Museum, founded by Richard L. Sutton, M.D., is located in Room 271, R.H. Flarsheim Hall. It contains relief models and interactive displays, along with a full range of 2,500 spectacular mineral and fossil specimens from all over the world. Hours of operation are 8:30 a.m. to 4:30 p.m. Monday through Friday. Admission is free.

Center for Applied Environmental Research (CAER)
The Center for Applied Environmental Research [http://cas.umkc.edu/caer] is administered by the Geosciences Department and directed by Professor Syed E. Hasan. The center is a resource for governmental agencies, private firms, and the general public in matters of the environment. Its programs address such matters as environmental geophysics, geochemistry, underground space, foundation stability, waste management, geologic hazards, environmental justice, natural resource assessment, and land-use planning.

Undergraduate Admission Requirements
Prospective students desiring to major in the Geosciences programs should enroll in as much work as possible in mathematics, English composition and sciences during their high school years. Students transferring from other colleges or universities should have taken required non-departmental 100- and 200-level courses listed under degree programs in this catalog prior to arriving at UMKC. For example, geology students should take mineralogy during their first fall semester and should have already completed the chemistry prerequisite by that time. In addition, it would be desirable for B.S. majors to have completed a semester of calculus. To assure that students transferring from other institutions of higher education can continue in an uninterrupted plan of study in the fields of geology, geography or environmental studies, it is advisable that they acquaint themselves with the departmental degree requirements listed in this catalog as well as the two-year timetable of course offerings available from the department advisors, prior to registration.

Career for Geography, Geology and Environmental Studies Graduates

Geography
Students of geography at UMKC are offered a well-rounded education leading to promising career prospects; the market for geographers is global. Geography is centrally concerned with the whole range of interrelations between human beings and the natural and built environments. Geography graduates find work in commerce; government and public administration; city and regional planning; natural resource management and environmental conservation; historic preservation; landscape design; pollution control; weather-forecasting; climatological and agricultural analysis; statistical analysis; government and commercial map-making; transportation; the travel and tourism industry; market analysis and development; diplomacy; and national and international economic development programs. Experience with geographic information science (GIS) and remote sensing technologies is a great advantage in all these fields. Well-educated geographers are often involved in the crafting of policy and legislation, in the practice of law, in consulting, in publishing and in education.

Geology
Geology graduates have numerous employment opportunities, especially in areas relating to the environment, to engineering and to applied geology. Training in urban and environmental geology will prepare graduates to develop and evaluate environmental impacts, deal with waste management issues; model groundwater flow; handle laboratory and field instrumentation; and assess natural hazards. Geologic studies of soils, energy, mineral and water resources, and the environment are essential for
private industry, as well as for governmental agencies. Graduates may also join state and federal geological surveys. The petroleum industry was for many years the principal employer of geologists. However, currently the best employment opportunities are in the area of the environment.

**Environmental Studies**
Environmental issues such as climate variation, atmospheric pollutants and non-point-source water pollution are complex issues. The general public is ill-equipped to evaluate these issues and must rely on experts. The need for environmental education and professionals in the field of the environment has never been greater. Given these needs, employment opportunities are unlimited and are likely to remain so for decades. Specific careers available to those who hold an environmental studies degree lie with companies and agencies that deal with engineering, environmental geology, environmental law, environmental health and safety, emergency response, environmental training, environmental chemistry, politics and social issues.

**Teacher Certification in Earth Science or Social Science**
Certification as a middle school (grades 5-9) or secondary (grades 9-12) Earth Science teacher in either Kansas or Missouri requires that a student complete specific requirements in Biology, Chemistry, Environmental Studies, Geology, Physics and in the School of Education. Certification as a middle school (grades 5-9) or secondary (grades 9-12) Social Science teacher in either Kansas or Missouri requires that a student complete specific requirements in History, Political Science, Economics, Geography, Behavioral Sciences and in the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

**Departmental Activities**

**Advising System**
Students who wish to major in Geology, Geography or Environmental Studies should seek advice from the department at the earliest possible time. Transfer students, including those from local community colleges, should see faculty advisers in the department prior to admission to UMKC. All full-time faculty members serve as department advisers, but lead roles are designated to particular faculty for each discipline. Individuals may inquire about advising appointments at any time during the semester by phone at (816) 235-1334 or by e-mail at geosciences@umkc.edu.

**Practicums and Internships**
The nature of the fields of atmospheric science, environmental studies, geology, and geography necessitates practical in-class and laboratory exercises; field trips and fieldwork; working seminars and independent projects of a practical nature. More explanation of specific courses can be found in the individual course descriptions. Internships are available with local organizations.

**Financial Aid and Transportation Costs**
A variety of scholarships and student financial aid alternatives are available to students accepted for regular enrollment. (See the Financial Aid Web site http://www.umkc.edu/finaid for more information.) Scholarships available solely to Geosciences students include the Richard J. Gentile Scholarship, the Peck-Williams-Garstang Scholarship, the Truman Stauffer Scholarship, the Denis Ward Scholarship, and the Greater Kansas City Gem and Mineral Show Association Scholarship. Please note that certain field courses and field trips necessitate that some travel costs are at the expense of the individual student.
Environmental Studies Program
Program Director:
Caroline P. Davies
Participating Architecture, Urban Planning and Design Faculty:
Joy Swallow, Michael Frisch, Sungyup Kim, and Jacob Wagner
Participating Biology Faculty:
Aaron Reed
Participating Business Faculty:
Sandy Price, David Renz, and Li Sun
Participating Chemistry Faculty:
Yanching (Jerry) Jean, Kathleen Kilway, Ken Schmidt, J. David VanHorn, and Charles Wurrey
Participating Engineering Faculty:
ZhiQiang Chen, John Kevern, Deborah O'Bannon, and Jerry Richardson
Participating Economics Faculty:
Mathew Forstater and Michael Kelsay
Participating Education Faculty:
A. Louis Odom
Participating Geosciences Faculty:
Jimmy Adegoke, Raymond Coveney, Caroline Davies, Steven Driever, Syed Hasan, Daniel Hopkins, Wei Ji, Jejung Lee, James Murowchick, Tina Niemi, and Julie Urbanik
Participating History Faculty:
John Herron
Participating Law Faculty:
John Ragsdale
Participating Philosophy Faculty:
James Sheppard
Participating Political Science Faculty:
Reginald Bassa

Program Description
Environmental Studies Program provides students with the most innovative preparation in urban environmental issues and sustainability. The ES program engages a diverse student body with a strong foundation in environment and geosciences. It includes covering relationships between human beings and the environment. In addition to core courses in environmental science, environmental courses emphasizing the humanities and social sciences provide necessary balance for addressing physical Earth issues in a societal context. Undergraduate students gain essential life skills, an appreciation for complex environmental processes, and respect for the diversity of the urban environment in both Environmental Studies BA and Environmental Science BS degrees.

The department has offered geography and geology courses since 1934. The geography and geology programs of the Department of Geosciences include both bachelor of arts and bachelor of science degrees. The department also offers a master of science degree in environmental and urban geosciences (formerly the master of science in urban environmental geology degree). Students who designate geosciences as their coordinating discipline for the interdisciplinary doctoral program must meet admission and other requirements available from the department. See the School of Graduate Studies section of the graduate catalog for more information about doctoral programs.

Geography and Geology Programs
Professors:
Raymond M. Coveney Jr., Steven L. Driever (principal undergraduate geography adviser), Syed E. Hasan (Director, CAER), Wei Ji (graduate Geography adviser and GIS Program Director), Tina Niemi (principal undergraduate Geology adviser)
Associate Professors:
   Jimmy Adegoke, Caroline P. Davies (undergraduate Environmental Studies adviser, BS; Director, Environmental Studies Program), Daniel P. Hopkins (undergraduate Environmental Studies adviser, B.A.), James B. Murowchick (Chair)

Assistant Professors:
   Jejung Lee (principal graduate adviser and IPhD Coordinator)

Assistant Teaching Professors:
   Julie L. Urbanik

Professors Emeriti:
   Richard J. Gentile, Edwin D. Goebel, Paul L. Hilpman, Eldon J. Parizek

Program Description
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Graduate Certificate in Waste Management
In keeping with the demand for trained professionals in the field of waste management, a new Graduate Certificate Program in Waste Management was launched in 2003. The program is designed for professionals working in the waste management industry who desire advanced knowledge in the field but do not have the time to enroll in a graduate degree program that may take up to two years to complete. The graduate certificate program is designed to meet this need and also to enable students holding a bachelor's degree in an appropriate discipline to improve their knowledge in the waste management field and to prepare them to enter industry with advanced knowledge at the graduate level. The carefully designed curriculum for this program consists of 15 credit hours of course work that covers every important aspect of waste management. Field visits to waste facilities and the 40-hour OSHA-approved Hazardous Waste Operator Training (HAZWOPER) course are included in the curriculum.

Required Courses
ENV-SCI 310 Field Experience in Waste Management - 3 hrs
GEOLOGY 335 Introduction to Waste Management - 3 hrs
GEOLOGY 5512 Geology and Hazardous Waste Management - 3 hrs
GEOLOGY 5534 Hazardous Waste Operation Management - 2 hrs
GEOLOGY 5570 Hydrogeology - 3 hrs
GEOLOGY 5597 Graduate Seminar - 1 - 3 hrs

Master of Science : Environmental and Urban Geosciences
The Department of Geosciences offers a master of science degree in Environmental and Urban Geosciences, the only such program in North America. This unique program prepares students, depending
on their emphasis area, for advanced study of different facets of the environment including: environmental issues and geospatial methods (GIS and Remote Sensing), natural hazards, environmental remediation, waste management, air and water pollution, resource evaluation and management, geoarchaeology, historical geography, and urban land use and planning. Although the program requires students to select an area of concentration, all students must complete a core curriculum and a thesis.

Admissions Requirements

For full admission to the graduate degree program in environmental and urban geosciences (Code 6, degree-seeking status), the following requirements must be met:

1. Completion of an undergraduate degree with a major in a geosciences field (such as Environmental Sciences or Studies, Geography, and/or Geology) and a grade-point average of at least 3.0 (A = 4.0) overall, as well as in the major.
2. Submission of scores on the Graduate Record Examination (GRE) is not required but highly recommended. GRE scores may be used to award assistantships.
3. Two letters of recommendation from academic and/or professional references.
4. The student must declare one of the three degree emphasis areas in his or her application.
5. All application materials must be submitted to the Admissions Office by March 31 for fall semester and October 1 for spring semester for final consideration.

With department approval, students with non-geoscience undergraduate degrees may be provisionally admitted on a non-regular degree-seeking basis (Code 6-V). After successfully completing recommended courses for the appropriate undergraduate geoscience degree, provisionally-admitted students may be granted degree-seeking status.

Graduate Assistantships

Teaching assistantships are awarded on a competitive basis to incoming fully-admitted graduate students. Assistantship applications and all supporting materials should be submitted by March 31 for fall enrollment and October 1 for spring enrollment. Students whose native language is not English must take the iBT test prior to holding a teaching assistantship. Specific scoring requirements for the iBT may be found here.

Core Curriculum

Hours
GEOG 5544 Spatial Data Analysis - 3 hrs
GEOG 5595 Graduate Seminar I - 1 hr
/GEOLOGY 5595
GEOG 5597 Graduate Seminar II - 1 hrs
/GEOLOGY 5597
GEOG 5599 Research and Thesis 3-6 - hrs
/GEOLOGY 5599

Areas of Concentration

Students must select one of the following areas of concentration:

Environmental Geography and Geographic Information Science

The Environmental Geography and Geographic Information Science area of concentration will prepare students with a wide range of knowledge on environmental issues and geospatial methods (GIS, remote
sensing, and environmental modeling). Required courses for students in this area are:

**Hours**

GEOG 5502 Environmental Remote Sensing and Digital Image Analysis - 4 hrs  
GEOG 5506 Global Environmental Change - 3 hrs  
GEOG 5507 Advanced Geographic Information Science - 4 hrs

Based on student interest and departmental research priorities, students may also take courses in such areas as biogeography, climatology, ecosystem management, hydrology, and quaternary environments.

**Environmental Geology**

The Environmental Geology area of concentration provides opportunities for advanced study of geology with emphasis on human interaction with the environment. Hydrogeology, neotectonics, geochemistry, and environmental hazards and remediation are among the possible specialties a student could pursue in this emphasis area. Required courses for students in this area are:

**Hours**

GEOLOGY 5551 Geotechnics - 4 hrs  
GEOLOGY 5570 Hydrogeology - 3 hrs  
**One of the following:**

- GEOLOGY 5531 X-ray Methods in Geosciences - 2 hrs  
- GEOLOGY 5532 ICPMS Applications - 2 hrs  
- GEOLOGY 5535 Aqueous Geochemistry - 3 hrs  
- GEOLOGY 5541 Environmental Geophysics - 3 hrs

Other coursework may include appropriate geology courses, as well as related departmental courses, especially those in geographic information science.

**Urban and Cultural Geography**

Students choosing this area of concentration can pursue studies in cultural geography, historical geography, history of cartography, geoarchaeology, regional analysis and development, and urban geography and planning. Required courses for students in this area are:

**Hours**

GEOG 5503WI History and Philosophy of Geography - 3 hrs  
GEOG 5507 Advanced Geographic Information Science - 4 hrs  
GEOG 5509 Urban Geography - 3 hrs

Other coursework may include appropriate geography courses, as well as related departmental courses and cognate courses in other departments.

**Requirements for Retention**

1. All fully-admitted students are required to pass a qualifying examination administered by the department during their first year.
2. A 3.0 (B) average or better must be maintained in all graduate coursework. In addition, a 3.0 (B) average and a satisfactory balance of grades must be maintained in the approved program of study, or the student will be subject to either probationary status or dismissal from the program.

**Requirements for Graduation**
1. Formal acceptance of a planned program of study and research is required by the department and the graduate officer of the College. Such a program must comprise at least 30 graduate credit hours (approved by the supervisory committee), including 3 to 6 hours of thesis credit, and completion of the core curriculum and emphasis area requirements. No more than 40 percent of the program may be 300- to 400-level courses, and at least 18 credit hours must be at the 5500 level or above.

2. A formal written thesis is required of all students, and its format must be in accordance with guidelines of School of Graduate Studies.

3. A final examination is required, including oral examination of thesis research and related coursework.

4. Satisfactory compliance with all applicable requirements of the School of Graduate Studies is required, including continuous enrollment and residency.

**Natural Science/Social Sciences Area Requirements**

The following geosciences courses count toward the natural science requirements of the College of Arts and Sciences:

- ENV-SCI 110L Understanding the Earth Laboratory
- ENV-SCI 110R Understanding the Earth
- GEOG 203 Intro to Geographic Information Systems
- GEOG 215 Intro to Weather and Climate
- GEOG 314 Principles of Geomorphology
- GEOG 317 Cartography
- GEOG 319 Descriptive and Synoptic Meteorology
- GEOG 335 Introduction to Waste Management
- GEOG 360 Principles of Biogeography
- GEOG 401 Advanced Geographic Information Science
- GEOG 402 Environmental Remote Sensing
- GEOG 404 Biogeography and Landscape Ecology
- GEOG 406 Global Environmental Change
- GEOG 435 Geoarchaeology
- GEOG 442 Quaternary Environments
- GEOG 444 Spatial Data Analysis
- GEOG 448 Satellite Climatology

All Geography courses except the above count toward the social science requirements of the College of Arts and Sciences.

**Advanced Certificate Program in GIS**

Recognizing the important role GIS now plays in shaping understanding of the environment and in the management of public resources, professors from Geosciences, Urban Planning and Design, Sociology, Criminal Justice and Criminology, and Computing and Engineering created a technology-based curriculum designed to prepare students for a variety of careers in the rapidly growing GIS job market. For completion of the certificate program, the student is required to finish the coursework of 17-18 credit hours in order to receive a certificate.
Required Two Core Courses (8 credit hours) Hours
GEOG 203 Introduction to Geographic Information Systems - 4 hrs or GEOG 450 GIS Fundamentals for Research Applications - 4 hrs

GEOG 401/5507 Advanced Geographic Information Science - 4 hrs

Choose Three from the Following (9-10 credit hours)
GEOG 402/5502 Environmental Remote Sensing and Digital Image Analysis - 4 hrs
GEOG 444/5544 Geocomputation for Earth and Environmental Sciences - 3 hrs
GEOG 448/5548 Satellite Climatology - 4 hrs
GEOG 5598D Special Topics in Advanced GIS and Remote Sensing - 1 - 3 hrs
UPD 300 Quantitative Planning Methods and Techniques - 3 hrs
UPD 400 Advanced GIS for Urban Planning - 3 hrs
CJC 5592 Advanced GIS for Crime Analysis - 3 hrs
E&C-ENGR 484/5590IP Introduction to Digital Image Processing - 3 hrs
COMP-SCI 352 Data Structures and Algorithms - 3 hrs
COMP-SCI 471 Database Design, Implementation and Validation - 3 hrs

Students and working professionals enrolled in the Advanced GIS Certificate Program will become proficient in using GIS and remote sensing techniques to address various environmental and urban issues. They will receive practical GIS experience and supplement their knowledge of geography, geology, environmental studies, and urban studies and planning. For more information go to Web site at http://cas.umkc.edu/geo/advGis.html

Student Learning Outcomes
Environmental Studies students can describe the components and function of Earth systems, have knowledge of environmental policy and ethical approaches to environmental issues, and have engaged in global challenges such as climate change, global water scarcity and ocean acidification, energy, consumption and waste management, and urban sustainability. Environmental Studies students will be actively involved with diverse communities throughout their course work and understand environmental challenges from multiple cultural perspectives and through world experiences. Environmental Studies students will demonstrate this learning through the application, across the curriculum, of advanced geographical knowledge, quantitative, and analytical skills in their application to new settings and complex problems. Environmental Studies students will have the ability to characterize environmental elements analytically and communicate their findings effectively.

Bachelor of Science: Environmental Science
B.S. Environmental Studies:
B.S. Program Coordinator: Caroline P. Davies, (816) 235-1334

Core Requirements: (18 hrs.)
ENV-SCI 110R /110L, Understanding the Earth w/lab 3/2
ENV-SCI 210 Issues in Environmental Science 3
GEOG 215, Intro to Weather and Climate 4 or GEOG 319, Synoptic Meteorology 4
GEOLOGY 250 or 251, Field Methods 3
ENV-STDY 499WI, Environmental Studies Practicum 3 (or GEOG 499WI, GEOLOGY 499WI, or GEOG 403WI)

Required Supporting Sciences (22/23 hrs.)
BIOLOGY 108/108L General Biology I w/lab 5
BIOLOGY 109/109L General Biology II w/lab 5

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Or GEOG 360 Principles of Biogeography w/lab 4
CHEM 211/211L General Chemistry I w/lab 5
CHEM 212R/212L General Chemistry II w/lab 5
MATH 235 Elementary Statistics 3 or CJC 363 Statistics in Sociology 3

Choose FOUR courses from the following: (12-16 hrs.)
BS students need a total of 60 hours of math and science (At least one course must be taken from each of
the three divisions of learning: Natural Sciences (NS), Social Sciences (SS), & Ethics, Jurisprudence, &
Culture (E). Core courses cannot also be counted for credit in this section.

Natural Sciences (NS)
BIOLOGY 302 Ecology
BIOLOGY 303 Invertebrate Zoology
BIOLOGY 305 Marine and Freshwater Biology
BIOLOGY 308 Vertebrate Zoology
BIOLOGY 346 Plant Biology
CIV-ENGR 401C Green Building and Sustainable Infrastructure
CIV-ENGR 454 River Stability and Scour
CHEM 387 Environmental Chemistry I
ENV-SCI 310 Field Experience in Waste Mgmt
ENV-SCI 332 CZ Environmental Sustainability
ENV-SCI 430 Soil and Groundwater Remediation
ENV-SCI 449 Global Water and Sustainability
ENV-SCI 496 Environmental Sustainability Internship

All Physical Geography courses are applicable as natural science electives:
GEOG 203 Introduction To Geographic Information Systems
GEOG 314 Principles of Geomorphology
GEOG 317 Cartography
GEOG 319 Descriptive and Synoptic Meteorology
GEOG 335 Introduction To Waste Management
GEOG 360 Principles of Biogeography
GEOG 401 Advanced Geographic Information Science
GEOG 402 Environmental Remote Sensing and Digital Image Analysis
GEOG 406 Global Environmental Change
GEOG 426 Paleocology: Microfossils and Climate Change
GEOG 430 Energy Resources
GEOG 435 Geoarchaeology
GEOG 442 Quaternary Environments
GEOG 444 Spatial Data Analysis
GEOG 448 Satellite Climatology

Any Geology course may be used for additional natural science electives, but the following courses are
particularly relevant to the Environmental Studies major:
GEOL 302 Environmental Geology
GEOL 312 Mineralogy
GEOL 313 Evolution and the Geologic Record
GEOL 314 Geomorphology
GEOL 326 Archaeology of Ancient Disasters
GEOL 412 Geology and Hazardous Waste Management
GEOL 460 Geochemistry
GEOLOGY 470 Hydrogeology

Social Sciences (SS)
ECON 420 Environment, Resources, and Economic Growth
ENV-SCI 220 Ecosystem Science for Decision Makers
ENV-SCI 332CZ Environmental Sustainability
ENV-STDY 325 Cultural Perspectives on the Environment
ENV-STDY 334 Gender and the Environment
ENV-STDY 345 Animals and Society
ENV-STDY 450 Ecotoxicology
GEOG 309 Urban Geography
GEOG 311 Economic Geography
GEOG 333 Geographic Elements of Urban Planning
GEOG 437 Population Geography
GEOG 460 Transportation Geography
PUB-ADM 497 Urban Environmental Policy
PUB-ADM 497 Managing for Sustainability in an Urban Environment
POL-SCI 380 Environmental Justice
POL-SCI 435 Politics of the Environment
PSYCH 403 Environmental Psychology
UPD 280 Land use Planning
UPD 420 Transportation Planning
UPD 430 Planning for Historic Preservation
UPD 432 Urban Environmental Planning & Design
UPD 340 Neighborhood and Community Development
ENV-DSN 413 Environmental Systems in Architecture I

Ethics, Jurisprudence, and Culture (E)
ENV-STDY 325 Cultural Perspectives on the Environment
GEOG 329 World Political Geography
GEOG 332 Cultural Geography
GEOG 340 Geography of the United States and Canada
GEOG 341 Geography of South America
GEOG 342 Geography of Mexico, Central America, and the Caribbean
GEOG 350 Geography of Europe
GEOG 355 Geography of Africa
GEOG 403 WI History and Philosophy of Geoscience
GEOG 499WI Geography Seminar
HISTORY 365 Nature and Culture: American Environmental History
LAW 8725 Water Law
LAW 8728 Law & the American Indian
LAW 8729 Preservation Law
LAW 8773 Environmental Law
LAW 8782 Environmental Law Seminar
PHILOS 334 Philosophy of Science
PHILOS 338 Philosophy of Biology
PHILOS 370 Environmental Ethics
UPD 260 History of Planning and Urban Design
UPD 320 Planning Theory & Practice
UPD 450 Planning and Law Practices

Minimum Core Courses from Above: 53 Distribution Electives and General Education Requirements: 70 Minimum Total Hours: 123 Note: The B.S. degree requires at least 60 credit hours of science and mathematics. In addition to the core courses and other required courses listed above, Environmental Studies majors seeking a bachelor of science degree and selecting a geosciences emphasis must take a minimum of an additional 12 credit hours in Geology or physical Geography.

Bachelor of Arts: Environmental Studies
B.A. Environmental Studies: B.A. Program Coordinator: Daniel P. Hopkins, (816) 235-1334

Core Requirements (14 hrs.)
- ENV-SCI 110R/110L, Understanding the Earth w/lab 3/2
- ENV-SCI 210, Issues in Environmental Science 3
- ENV-STDY 499WI, Environmental Studies Practicum 3 (or GEOG 499WI or GEOLOGY 499WI or GEOG 403WI)
- STAT 235, Elementary Statistics 3 or CJC 363/SOCIOL 363, Statistics 3

Required Supporting Social Sciences (12-13 hrs.)
Choose FOUR from THREE different disciplines:
- ECON 420 Environment, Resources and Economic Growth 3
- GEOG 203 Intro to GIS or GEOG 317, Cartography or UPD 203 GIS for Urban Planning
- GEOG 406 Global Environmental Change or GEOG 449, Global Water and Sustainability
- HISTORY 365 Nature and Culture: American Environmental History
- PHILOS 370 Environmental Ethics
- UPD 432 Urban Environmental Planning and Design

Choose THREE (3) courses from the following: (9-10 hrs.)
BA students need at least one course taken from each of the three divisions of learning: Natural Sciences (NS), Social Sciences (SS), & Ethics, Jurisprudence, & Culture (E). Core courses cannot also be counted for credit in this section.
Natural Sciences (NS)
- BIOLOGY 302 Ecology
- BIOLOGY 303 Invertebrate Zoology
- BIOLOGY 305 Marine and Freshwater Biology
- BIOLOGY 308 Vertebrate Zoology
- BIOLOGY 346 Plant Biology
- CIV-ENGR 401C Green Building and Sustainable Infrastructure
- CIV-ENGR 454 River Stability and Scour
- CHEM 160 Chemistry, Society, and the Environment cH, Society, And The Environment
- CHEM 211/211L Gen Chem I w/lab
- CHEM 212/212L Gen Chem II w/lab
- CHEM 387 Environmental Chemistry I
- ENV-SCI 310 Field Experience in Waste Mgmt
- ENV-SCI 332 CZ Environmental Sustainability
- ENV-SCI 430 Soil and Groundwater Remediation
- ENV-SCI 449 Global Water and Sustainability
- ENV-SCI 496 Environmental Internship
- ENV-STDY 450 Ecotoxicology
All Physical Geography courses are applicable as natural science electives:
GEOG 203 Introduction To Geographic Information Systems
GEOG 314 Principles of Geomorphology
GEOG 317 Cartography
GEOG 319 Descriptive and Synoptic Meteorology
GEOG 335 Introduction To Waste Management
GEOG 360 Principles of Biogeography
GEOG 401 Advanced Geographic Information Science
GEOG 402 Environmental Remote Sensing And Digital Image Analysis
GEOG 406 Global Environmental Change
GEOG 430 Energy Resources
GEOG 435 Geoarchaeology
GEOG 442 Quaternary Environments
GEOG 444 Spatial Data Analysis
GEOG 448 Satellite Climatology

Any Geology course may be used for additional natural science electives, but the following courses are particularly relevant to the environmental studies major:
GEOLOGY 302 Environmental Geology
GEOLOGY 312 Mineralogy
GEOLOGY 314 Geomorphology
GEOLOGY 326 Archaeology of Ancient Disasters
GEOLOGY 412 Geology and Hazardous Waste Management
GEOLOGY 460 Geochemistry
GEOLOGY 470 Hydrogeology

Social Sciences (SS)
ECON 420 Environment, Resources, and Economic Growth
ENV-SCI 220 Ecosystem Science for Decision Makers
ENV-SCI 332 Environmental Sustainability
ENV-STDY 334 Gender and the Environment
ENV-STDY 345 Animals and Society
GEOG 309 Urban Geography
GEOG 311 Economic Geography
GEOG 333 Geographic Elements of Urban Planning
GEOG 437 Population Geography
GEOG 460 Transportation Geography
HISTORY 356 Rise of the City
HISTORY 356R KC: History of a Regional Metropolis
PUB-ADM 497 Urban Environmental Policy
PUB-ADM 497 Managing for Sustainability in an Urban Environment
POL-SCI 380 Environmental Justice
POL-SCI 435 Politics of the Environment
PSYCH 403 Environmental Psychology
UPD 280 Land Use Planning
UPD 420 Transportation Planning
UPD 430 Planning for Historic Preservation
UPD 432 Urban Environmental Planning & Design
UPD 340 Neighborhood and Community Development
ENV-DSN 413 Environmental Systems in Architecture I
Ethics, Jurisprudence, and Culture (E)
ENV-STDY 325 Cultural Perspectives on the Environment
GEOG 200 World Regional Geography I
GEOG 202 World Regional Geography II
GEOG 210 Human Geography
GEOG 329 World Political Geography
GEOG 332 Cultural Geography
GEOG 341 Geography of South America
GEOG 342 Geography of Mexico, Central America, and Caribbean
GEOG 340 Geography of the United States and Canada
GEOG 350 Geography of Europe
GEOG 355 Geography of Africa
GEOG 403WI History and Philosophy of Geoscience
GEOG 499WI Geography Seminar
HISTORY 365 Nature and Culture: American Environmental History
LAW 8725 Water Law
LAW 8728 Law & the American Indian
LAW 8729 Preservation Law
LAW 8773 Environmental Law
LAW 8782 Environmental Law Seminar
PHILOS 334 Philosophy of Science
PHILOS 338 Philosophy of Biology
PHILOS 370 Environmental Ethics
UPD 320 Planning Theory & Practice
UPD 260 History of Planning and Urban Design
UPD 450 Planning and Law Practices

Minimum Core Courses from Above: 35 Distribution Electives and General Education Requirements: 85
Minimum Total Hours: 12

Environmental Studies Minor

B.A. Program Coordinator: Daniel P. Hopkins, Geosciences, (816) 235-1334;

Students pursuing the bachelor of arts degree who wish to obtain a minor in environmental studies must take at least 18 credit hours of coursework from the following list, a minimum of nine credit hours at the 300- or 400-level and a minimum of nine credit hours at UMKC. The program of study is to be planned with a program coordinator.

Required Courses
ENV-SCI 110R Understanding the Earth - 3 hrs
ENV-SCI 110L Understanding the Earth Lab - 2
ENV-SCI 210 Issues in Environmental Science - 3 hrs

Choose a minimum of one of the following electives:
ECON 420* Environment, Resources and Economic Growth - 3 hrs
HISTORY 364Rhttp://www.umkc.edu/umkc/catalog/htmlc/as/hist/c364r.html,* Nature and Culture: American Environmental History - 3 hrs
PHILOS 370* Environmental Ethics and Policy - 3 hrs
PSYCH 403,* Environmental Psychology - 3 hrs
POL-SCI 435* Politics of the Environment - 3 hrs
*May not be counted in both required and elective categories.
Electives
See the electives listed under B.S. Environmental Studies.

Courses which do not apply as credit in the Minor program are:
Geog/Geol 417 - Special Topics
Geog/Geol 489 - Tutoring
Geog/Geol 398 - Field Trip
Geog/Geol 499WI - Senior Seminar

B.S. Program Coordinator: Caroline Davies, Geosciences, (816) 235-1334;

Students pursuing the bachelor of science degree who wish to obtain a minor in environmental studies must take at least 18 credit hours of coursework from the following list, a minimum of nine credit hours at the 300- or 400-level and a minimum of nine credit hours at UMKC. The program of study is to be planned with a program coordinator.

Required Courses
ENV-SCI 110R, Understanding the Earth - 3 hrs
ENV-SCI 110L, Understanding the Earth Lab - 2 hrs
ENV-SCI 210, Issues in Environmental Science - 3 hrs
CHEM 160, Chemistry, Society, and the Environment - 3 hrs

Choose a minimum of one of the following electives:
ECON 420,* Environment, Resources and Economic Growth - 3 hrs
PHILOS 370,* Environmental Ethics - 3 hrs
PSYCH 403,* Environmental Psychology - 3 hrs
POL-SCI 435* Politics of the Environment - 3 hrs

*May not be counted in both required and elective categories.

Electives
See the electives listed under B.S. Environmental Studies.

Courses which do not apply as credit in the Minor program are:
Geog/Geol 417 - Special Topics
Geog/Geol 489 - Tutoring
Geog/Geol 398 - Field Trip
Geog/Geol 499WI - Senior Seminar

Bachelor of Science/Bachelor of Arts: Geography
Bachelor of Arts: Geography

Required Courses

<table>
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<th>Course</th>
<th>Hours</th>
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<td>ENV-SCI 110L</td>
<td>w/Lab</td>
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<td>World Geography II</td>
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<td>GEOG 203</td>
<td>Intro to GIS</td>
</tr>
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<td>GEOG 317</td>
<td>Cartography</td>
</tr>
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<td>GEOG 398</td>
<td>Field Trip</td>
</tr>
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<td>GEOG 499WI</td>
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Any Four Courses (Human and Regional Geography):

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<thead>
<tr>
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<th>Title</th>
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<tr>
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<td>GEOG 309</td>
<td>Urban Geography</td>
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<td>GEOG 311</td>
<td>Economic Geography</td>
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<td>GEOG 329</td>
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<tr>
<td>GEOG 332</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 333</td>
<td>Introduction to Urban Planning</td>
<td>3</td>
</tr>
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<td>GEOG 340</td>
<td>Regional Geography of the US and Canada</td>
<td>3</td>
</tr>
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<td>GEOG 341</td>
<td>Regional Geography of South America</td>
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</tr>
<tr>
<td>GEOG 342</td>
<td>Regional Geography of Mexico, Central America &amp; the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Regional Geography of Europe</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403WI</td>
<td>History and Philosophy Geography</td>
<td>3</td>
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<td>GEOG 437</td>
<td>Population Geography</td>
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<tr>
<td>GEOG 460</td>
<td>Transportation Geography</td>
<td>3</td>
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Other Regional Courses: One or two 300-level courses 3-6

Any Three Courses (Physical Geography):

<table>
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<tr>
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<th>Title</th>
<th>Credits</th>
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<td>GEOG 215</td>
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<td>GEOG 314</td>
<td>Principles of Geomorphology</td>
<td>4</td>
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<td>GEOG 319</td>
<td>Descriptive and Synoptic Meteorology</td>
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<td>GEOG 335</td>
<td>Introduction to Waste Management</td>
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<td>GEOG 336</td>
<td>Principles of Soil Science</td>
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<td>GEOG 360</td>
<td>Principles of Biogeography</td>
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<td>GEOG 401</td>
<td>Advanced GIS w/Lab</td>
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<td>GEOG 402</td>
<td>Environmental Remote Sensing &amp; Digital Image Analysis(NS)</td>
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<td>GEOG 404</td>
<td>Biogeography and Landscape Ecology</td>
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<td>GEOG 406</td>
<td>Global Environmental Change</td>
<td>3</td>
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<tr>
<td>GEOG 426</td>
<td>Paleocoeology: Microfossils and Climate Change</td>
<td>3</td>
</tr>
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<td>GEOG 430</td>
<td>Energy Resources</td>
<td>3</td>
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<td>GEOG 435</td>
<td>Geoarchaeology</td>
<td>3</td>
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<td>GEOG 442</td>
<td>Quaternary Environments</td>
<td>3</td>
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<td>GEOG 444</td>
<td>Spatial Data Analysis</td>
<td>3</td>
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<td>GEOG 448</td>
<td>Satellite Climatology</td>
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<tr>
<td>GEOG 450</td>
<td>GIS Fundamentals for Research w/Lab</td>
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Supporting Requisites (3 Hours):
A fourth semester of a foreign language 3

Bachelor of Science: Geography*Required Courses:

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<td>GEOG 200</td>
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<td>GEOG 202</td>
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* Required Courses:
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<tr>
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<th>Credit Hours</th>
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<tr>
<td>GEOG 203</td>
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<td>GEOG 317</td>
<td>Cartography</td>
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<tr>
<td>GEOG 398</td>
<td>Field Trip</td>
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<tr>
<td>GEOG 499WI</td>
<td>Senior Seminar</td>
<td>3</td>
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**Any Three Courses (Human and Regional Geography):**

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<tr>
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<tr>
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<td>GEOG 311</td>
<td>Economic Geography</td>
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<td>GEOG 329</td>
<td>World Political Geography</td>
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<td>GEOG 332</td>
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<tr>
<td>GEOG 333</td>
<td>Introduction to Urban Planning</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 341</td>
<td>Regional Geography of South America</td>
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<td>GEOG 350</td>
<td>Regional Geography of Europe</td>
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<td>GEOG 403WI</td>
<td>History and Philosophy Geography</td>
<td>3</td>
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<tr>
<td>GEOG 437</td>
<td>Population Geography</td>
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<td>GEOG 460</td>
<td>Transportation Geography</td>
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**Any Four Courses (Physical Geography):**

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<td>GEOG 335</td>
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<td>GEOG 336</td>
<td>Principles of Soil Science</td>
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</table>

**Supporting Requisites (3hrs.):**

**MATH 235 Statistics**

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*For a B.S. degree, a minimum of 60 hours of physical sciences and mathematics is required. A minimum of 26 hours of courses in the major at the 300-level or above is required for all programs in the Department of Geosciences leading to the B.A. or B.S. degree.

**B.S. students in the Department of Geosciences are not required to take foreign languages.
Bachelor of Science/Bachelor of Arts: Geology  
Bachelor of Arts: Geology  

Required Courses: (29 hours)  

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<td>Field Methods (Off-campus)</td>
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<td>GEOLOGY 312</td>
<td>Mineralogy</td>
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<td>Evolution and the Geologic Record</td>
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<td>GEOLOGY 350</td>
<td>Earth Structures and Tectonics</td>
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<td>GEOLOGY 490</td>
<td>Geology Field Camp</td>
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<td>GEOLOGY 499WI</td>
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B.A. Supporting Requisites:  

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<td>PHYSICS 210</td>
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Choose Four of the Following: (12-16 credit hours)  

Recommended Electives:  

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<td>GEOG 203</td>
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<td>Principles of Geomorphology</td>
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<td>GEOLOGY 325</td>
<td>Sedimentology/Stratigraphy</td>
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<tr>
<td>GEOLOGY 342</td>
<td>Igneous and Metamorphic Petrology</td>
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<tr>
<td>GEOLOGY 370R</td>
<td>Hydrogeology</td>
<td>3</td>
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<tr>
<td>GEOG 401</td>
<td>Advanced GIS</td>
<td>4</td>
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<tr>
<td>GEOLOGY 404</td>
<td>Fluid Transport in Geologic Media</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 407</td>
<td>Public Archaeology: Issues in</td>
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<tr>
<td></td>
<td>Archaeology Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 408</td>
<td>Archaeological Field Survey Methods</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 409</td>
<td>Field School in Archaeology</td>
<td>3-5</td>
</tr>
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<td>GEOLOGY 411</td>
<td>Mineral Deposits</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 412</td>
<td>Geology and Hazardous Waste</td>
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<tr>
<td></td>
<td>Management</td>
<td>3</td>
</tr>
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<td>GEOLOGY 441</td>
<td>Environmental Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 442R</td>
<td>Optical Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 442</td>
<td>Quaternary Environments</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 460</td>
<td>Introduction to Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 471</td>
<td>Tectonics</td>
<td>3</td>
</tr>
<tr>
<td>GEOLOGY 472</td>
<td>Earthquake Geology</td>
<td>3</td>
</tr>
</tbody>
</table>

* High school biology satisfies this requirement.
Geography and Geology Minors
Academic minors are offered in geography (18 hours) and in geology (18 hours). At least nine of the hours needed for the minor must be taken at UMKC. The minor programs are sufficiently flexible to enable students with diverse backgrounds to choose relevant coursework from the department's offerings. The programs are structured to ensure that students gain an appreciation of the breadth of the minor field. The minor should be declared as early as possible, but not later than the beginning of the student's senior year. Up to eight hours of coursework may simultaneously count in both the major and minor areas, where applicable. This applies to departmental and non-departmental students.

Undergraduate Minor in Geography
A minor in geography may be obtained with a minimum of 18 semester hours of coursework in this discipline (at least nine of which must be at the 300- and 400-level). Either ENV-SCI 110R Understanding the Earth (5 hours with lab) -or- GEOG 105 Introduction to the Elements of Geography (3 hours) is required.

Note: GEOG 398, GEOG 417, GEOG 489 and GEOG 499WI do not count as credit in a minor program in geography.

Undergraduate Minor in Geology
A minor in geology may be obtained with a minimum of 18 semester hours of coursework in this discipline (at least nine of which must be at the 300- and 400-level). GEOLOGY 220 General Geology (5 hours with lab) -and- GEOLOGY 250 Field Methods(Campus) (3hours) -or- GEOLOGY 251 Field Methods(Off-campus) (3 hours) are required.

Note: GEOLOGY 398, GEOLOGY 417 and GEOLOGY 499WI do not count as credit in a minor program in geology.

Environmental Sustainability Minor
Program Description
Global populations are becoming predominantly urban and the state of the environment is central to issues of quality of life, health and safety. The Environmental Sustainability minor program provides students with the most innovative preparation in urban environmental sustainability through course work that cross cuts multiple disciplines and focuses on integrative solutions. Students develop a foundation knowledge in Earth systems. Students engage the challenges of sustainability through course work and community problem solving in sustainable thinking, planning, policy, and design. Undergraduate students gain essential life skills, a foundation in complex environmental and human systems, and critical problem solving skills.

Student Learning Outcomes
Environmental Sustainability students can describe the interactions and feedbacks of Earth systems, have knowledge of environmental policy and urban planning, and are engaged in sustainability issues at many scales.

Environmental Sustainability students will be actively involved with diverse communities throughout their course work, and assess sustainability challenges from multiple cultural perspectives and through world experiences.
Environmental Sustainability students will demonstrate this learning through the application of advanced sustainable knowledge, quantitative, and analytical skills in their application to new settings and complex problems.

Environmental Sustainability students will have the ability to characterize human-environmental interactions analytically and communicate their findings effectively.

Environmental Sustainability Minor - requirements

**Required:** ENV-SCI 496 Environmental Sustainability Internship (3)

**Earth Systems and Resources**, ONE of the following:
- ENV-SCI 406 Global Environmental Change
- ENV-SCI 449, Global Water Sustainability
- GEOG 319, Descriptive and Synoptic Meteorology
- GEOG 360, Principles of Biogeography
- GEOG 430/GEOLOGY 430, Energy Resources

**Sustainable Thinking**, ONE of the following:
- ENV-SCI 332 CZ Environmental Sustainability
- HISTORY 364R Nature & Culture: American Environmental History
- PHILOS 370 Environmental Ethics
- POL-SCI 380 Environmental Justice

**Sustainable Planning and Policy**, ONE of the following:
- GEOG 333 Geographic Elements of Urban Planning
- PUB-ADM 497 Urban Environmental Policy
- UPD 340 Neighborhood And Community Development
- UPD 430 Planning for Historic Preservation

**Sustainable Design**, ONE of the following:
- CIV-ENGR 401C, Green Building and Sustainable Infrastructure
- ENV-DSN 413, Environmental Systems in Architecture I
- GEOG 335/GEOLOGY 335, Intro to Waste Management
- PUB-ADM 497, Managing for Sustainability in an Urban Environment
- UPD 432, Urban Environmental Planning and Design

**Analytical Tools**, ONE of the following:
- ECON 420, Environment, Resources, and Economic Growth
- GEOG 401, Advanced Geographic Information Science
- GEOG 450, GIS Fundamentals for Research Applications
- GEOG 444/GEOLOGY 444, Spatial Data Analysis
- UPD 420, Transportation Planning

**Total minimum number hours required (18)**
Courses which do not apply as credit in the Minor program are:
- GEOG 417/GEOLOGY 417 - Special Topics
- GEOG 489/GEOLOGY 489 - Tutoring
- GEOG 398/GEOLOGY 398 - Field Trip GEOG 499WI/GEOLOGY 499WI -Senior Seminar

**REQUIREMENTS:**
Minimum of 18 hours, Minimum of 9 hours from UMKC (not transferred)
Minimum of 9 Junior/Senior (300/400) level courses, Total hours determined by department. Academic Minors are optional. The minor will not appear on the Commencement Program or diploma but will be noted on the transcript.
Undergraduate Gerontology Minor
Undergraduate students in any major in the College of Arts and Sciences may seek an interdisciplinary minor in gerontology that will increase awareness of issues of our aging population. It may introduce possible career paths into service provision, administration, the health professions, and education or research.

Students complete an 18-credit course of study that includes a nine-credit core, six-credits of electives, and a three-credit practicum as outlined below. Completion of the gerontology minor is recorded on the student's transcript. Students must declare their intention to pursue the minor on the “Declaration of Major” form and should meet with the gerontology adviser. No more than 6 credits may be transferred from another institution.

**Curriculum**

**Sociology Core**
(choose one)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOCIOL 410R</td>
<td>Aging in Contemporary Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 318</td>
<td>Sociology of the Aging Woman</td>
<td>3</td>
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</tbody>
</table>

**Psychology Core**
(choose one)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYCH 440</td>
<td>The Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 441</td>
<td>Adult Development and Aging</td>
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**Health/Biology Core**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>A&amp;S 490B</td>
<td>ST: The Experience of Health in Aging (on-line)</td>
<td>3</td>
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**Field Practicum**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A&amp;S 492 *</td>
<td>Field Practicum in Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses**

Electives ** 6

*The practicum requirement should be enrolled in after all other core requirements are completed.

**Six elective credit hours can be taken to complete the program. Students should contact the gerontology program director or consult the Center on Aging Studies website (http://cas.umkc.edu/AgingStudies) for a list of 3-credit semester-long courses and 1-credit special topics weekend electives for the upcoming semester.
Graduate Gerontology Certificate

With the rapid aging of the population along with the consequences this brings to nearly every sector of our lives it is important to prepare for this changed world. A graduate gerontology certificate can be either a way to begin to explore a new career or it can bring added value to what one already does. This eighteen-credit program can be taken either as a free-standing curriculum or in some cases integrated with a graduate degree program at UMKC. Students from such diverse fields as social work, counseling, nursing, psychology, pharmacy, dental hygiene, sociology, law, architecture, and education have completed the certificate. Students should contact the gerontology adviser to discuss enrollment and a plan of study.

Curriculum

<table>
<thead>
<tr>
<th>Interdisciplinary Core</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A&amp;S 5500</td>
<td>Interdisciplinary Colloquium on Aging</td>
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<table>
<thead>
<tr>
<th>Sociology Core</th>
<th>(choose one)</th>
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<tbody>
<tr>
<td>SOCIOL 5550</td>
<td>Sociology of Aging</td>
</tr>
<tr>
<td>SOCIOL 5554</td>
<td>Sociology of the Aging Woman</td>
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<tr>
<td>SOCIOL 5560</td>
<td>Sociology of Death and Dying</td>
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<tbody>
<tr>
<td>PSCYH 5540</td>
<td>The Psychology of Aging</td>
</tr>
<tr>
<td>PSYCH 5543</td>
<td>Adult Development and Aging</td>
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<tr>
<th>Health/Biology Core</th>
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<tbody>
<tr>
<td>A&amp;S 5501B</td>
<td>ST: The Experience of Health in Aging (on-line)</td>
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<tr>
<th>Field Practicum</th>
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<tbody>
<tr>
<td>A&amp;S 5592 *</td>
<td>Field Practicum in Aging</td>
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<tr>
<th>Elective Courses</th>
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<tbody>
<tr>
<td>Electives **</td>
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</table>

*The practicum requirement should be enrolled in after all other core requirements are completed.

**Three elective credit hours can be taken to complete the program. Students should contact the gerontology program director or consult the Center on Aging Studies website (http://cas.umkc.edu/AgingStudies) for a list of 3-credit semester-long courses and 1-credit special topics weekend electives for the upcoming semester.
Healing and Humanities
Scofield Hall, Room 9
711 E. 51st Street

Faculty Coordinator/Program Adviser:
Dennise Todd, Director of Pre-Health Programs, (816) 235-6270

The interdisciplinary minor in healing and humanities enables students to explore the complicated nature of health care issues by integrating knowledge from the arts and humanities with the social and natural sciences. The minor is particularly appropriate for students considering health-related professions, complementing other scientific, clinical and professional preparation. Health care careers are projected to be among the fastest-growing fields in the 21st century. America’s changing health care environment increasingly calls for individuals who understand the complexity of factors affecting healing and who are able to take a humane, holistic approach.

The healing and humanities curriculum enables pre-health and health professions students to develop an interdisciplinary foundation for a future health care career. To earn a minor in healing and humanities, students must earn at least 18 credit hours from the list of approved courses below and other courses as approved by the program adviser. Credits must be earned in at least three departments or curricular designations. At least nine credit hours must be upper-division (i.e., 300 or 400), and at least nine must be earned at UMKC. Students may select from among a wide variety of courses offered by many participating departments. The program adviser is available to provide academic advice on course selection and degree requirements, as well as career guidance. Students interested in the healing and humanities minor should consult with the program adviser to plan a program of study.

Approved Courses:

- AMER-ST 350 Medical Humanities and American Studies
- ANTHRO 328 Anthropology of the Body
- ART 300CA Images of the Human Body in the Renaissance (Interdisciplinary Cluster Course)
- ART 300CH Healing and the Arts (Interdisciplinary Cluster Course)
- ART 300CM Body Images in MEDICINE and the Arts (Interdisciplinary Cluster Course)
- A&S 100 (First Year Seminar, Pre-Health sections only)
- A&S 240 Analysis of Medical Terminology
- A&S 304CM Body Images in MEDICINE and the Arts (Interdisciplinary Cluster Course)
- A&S 365P Introduction of Substance Abuse Counseling: Theory and Practice
- A&S 420 Literature: A Healing Art
- A&S 492 Field Practicum in Aging
- CHEM 206 Human Nutrition
- COMM-ST 140 Principles of Communication
- COMM-ST 344 Communication in Organizational Settings
- COMM-ST 377 Interpersonal Communication
- COMM-ST 431 Colloquium in Interpersonal Dynamics: Health Communication
- COMM-ST 444WI Intercultural Communications
- COMM-ST 400CT Healing and Cultural Diversity (Interdisciplinary Cluster Course)
- CJC 317 Policies of Drug Use and Control
- ECON 465 The Economics of Health and MEDICINE
- ENGLISH 225 (Writing, Healing, and the Humanities sections only)
ENGLISH 300CO Issues in Death and Dying (Interdisciplinary Cluster Course)
ENGLISH 400CA Images of the Human Body in the Renaissance (Interdisciplinary Cluster Course)
HISTORY 412B The Black Death and Late Medieval Society
HISTORY 428A HISTORY of the Body
HISTORY 428B Women MEDICINE: Patients and Practitioners from Antiquity to Present
HMNTY 408P Images of Aging in Literature
HMNTY 490P Perceptions and Images of Disabilities in Literature and Film
INT-DISC 350P Interdisciplinary Perspectives on Aging: Readings and Film
INT-DISC 401P The Natural Life Cycle
INT-DISC 402P Literature and Life Sciences
INT-DISC 403P Stages of Growth
INT-DISC 420P Brain and Behavior
MEDICINE 9514 Medicine, War and the Arts
MEDICINE 9515 Medicine and Music
MEDICINE 9518 Medicine, Literature and Law (3 credit hours applicable to minor)
MEDICINE 9578 Healing and the Arts (Interdisciplinary Cluster Course)
MEDICINE 9594 The Body Image in Medicine and the Arts (Interdisciplinary Cluster Course)
NAT-SCI 430PC Biological and Ethical Issues in Aging (Interdisciplinary Cluster Course)
NURSE 230 Health Issues in Aging
NURSE 252 Human Growth and Development
NURSE 356 Spanish for Health Care Pre-Professionals
PHILOS 221 Contemporary Moral Issues
PHILOS 300CK Controversy and Choice in Life and Sciences
PHILOS 315 Logic and Methodology in the Health and Social Sciences
PHILOS 321 Introductory Ethics
PHILOS 334 PHILOS of Science
PHILOS 338 PHILOS of Biology
PHILOS 350 Case Studies in the Methodologies of Science
PHILOS 360 Current Issues in Bioethics
PHILOS 400CO Issues in Death and Dying (Interdisciplinary Cluster Course)
PHILOS 401PC Biological and Ethical Issues in Aging (Interdisciplinary Cluster Course)
PSYCH 215 Meditation, Self-Hypnosis, and Biofeedback
PSYCH 300CCT Healing and Cultural Diversity (Interdisciplinary Cluster Course)
PSYCH 320 Ethnic and Minority Perspectives in PSYCH
PSYCH 328 PSYCH of Human Sexual Behavior
PSYCH 331 An Introduction to Health PSYCH
PSYCH 406P Introduction to Developmental Disabilities
PSYCH 407P Developmental Disabilities and Community Life
PSYCH 410 Abnormal Language
PSYCH 418 Brain and Behavior I (formally Biopsychology I)
PSYCH 419 Brain and Behavior II (formally Biopsychology II)
PSYCH 430 Introduction to Community PSYCH and Community Mental Health
PSYCH 433 Abnormal PSYCH
PSYCH 440 The PSYCH of Aging
PSYCH 441 Adult Development and Aging
RELIG-ST 494RS Death in HISTORY of Religion
RELIG-ST 496RS The Body in the HISTORY of Religion
• SOC-SCI 411P Aging in America: Past and Present
• SOCIOL 211 Social and Psychological Development through the Life Cycle
• SOCIOL 303CA Perspectives in Science and Healing (Interdisciplinary Cluster Course)
• SOCIOL 303CO Issues in Death and Dying (Interdisciplinary Cluster Course)
• SOCIOL 303CT Healing and Cultural Diversity (Interdisciplinary Cluster Course)
• SOCIOL 316 SOCIOL of Death and Dying
• SOCIOL 317 Policies of Drug Use and Control
• SOCIOL 328 Anthropology of the Body
• SOCIOL 410R Aging in Contemporary Society
• SOCIOL 416 Aging and Developmental Disabilities
• SOCIOL 417 Practicum in Aging and Developmental Disabilities
• SOCIOL 439 Social Meanings of Illness, Suffering and Healing
• SOCIOL 440R SOCIOL of MEDICINE
• SPANISH 216 Spanish for the Health Sciences
• THEATRE 300CH Healing and the Arts (Interdisciplinary Cluster Course)
History
Department of History
Cockefair Hall, Room 203
5121 Rockhill Road
(816) 235-1631
Fax: (816) 235-5723
history@umkc.edu
http://cas.umkc.edu/history

Mailing Address
University of Missouri-Kansas City
Department of History
Cockefair Hall, Room 203
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair: Gary L. Ebersole

Professors Emeriti: Jesse V. Clardy, James S. Falls, John T. Graham, Herman M. Hattaway, Carla L. Klausner, Lawrence H. Larsen, Stanley B. Parsons, Patrick A. Peebles, Louis W. Potts, Joseph P. Schultz

Professors: Andrew Stuart Bergerson, Gary L. Ebersole, Miriam Forman-Brunell, Dennis Merrill, Linda Mitchell

Associate Professors: William B. Ashworth Jr., Viviana Grieco, John Herron, Diane Mutti Burke, Lynda Payne

Assistant Professors: David Freeman, Matthew Warner Osborn, Massimiliano Vitiello

Adjunct Faculty: Fran Sternberg

- Department Description
- Desirable Preparation for Undergraduate Admission
- Department Activities
- Undergraduate Programs

Bachelor of Arts: History
  - Student Learning Outcomes
Program Requirements
Minor in History

Undergraduate History Courses

Graduate Programs
Master of Arts: History

- Student Learning Outcomes
- Program Requirements

Interdisciplinary Ph.D. in History

Graduate History Courses

Department Description
The faculty of the Department of History believe history is an essential component of a liberal arts education. As an important part of the curriculum, historical study enables students to understand the interaction of many aspects of state, society and culture, and the dynamics of human change. It offers a valuable perspective on contemporary problems as well as knowledge of the past for its own inherent interest.

Departmental offerings, at the undergraduate and graduate levels, include the major areas of historical concern such as American history and ancient, medieval and modern European history. In recognition of the role of a university in its community -- local, national and world -- the department offers courses in urban and social history, the history of science, Asian and Middle Eastern history, Judaic Studies, religious studies, women's and gender studies, and black studies. The department is also vitally involved in interdisciplinary courses and programs.

Desirable Preparation for Undergraduate Admission
Students wishing to major in history should acquire as broad a background as possible in subjects related to their historical interests. Both secondary school and community college courses in history should be supplemented with courses in other social sciences and the humanities. Students interested in the history of science should emphasize studies in physical and biological sciences.

The discipline is broad in scope and methods. Faculty members believe a logical and systematic selection of courses in other disciplines will complement the study of history. They encourage prospective majors to consult with them in preparing an integrated course of study.

Career Implications of the Bachelors Degree
The bachelor of arts degree in history provides students with general preparation for a wide range of occupations. Most majors follow business and professional careers and receive benefits both personally and professionally from the development of analytical skills and examination of relevant subject matter in history courses. A common misconception is that the only thing available after graduation is to teach history. That is a possible path, but certainly not your only option.

Among the many jobs you can consider are: advertising, analyst, archivist, broadcaster, campaign worker, consultant, congressional aide, editor, foreign service, foundation staff, information specialist, intelligence, journalist, legal assistant, lobbyist, personnel manager, public relations . . . the list is almost endless. It sounds cliché, but the career path for a history majors is limited only by your imagination.

More specifically, with your degree in history you can work as an educator (primary, secondary or post-secondary schools, historic sites and museums); as a researcher (museums, think tanks, cultural resources management, preservation); as a communicator (writers, archivists, librarians); as an advocate (lawyers, legislative staff, foundations); and in business (contract historians, non-profits, corporation staff).

Why so many opportunities? Consider this: the study of history trains us how to think—not in a small or proscribed way, but in an analytical way. In our courses, you will discover that a flexible and perceptive mind is the most practical tool imaginable. You will become excellent writers and communicators with
the ability to analyze complex problems with dexterity and finesse, a skill that will help you regardless of your chosen career path. Beyond this—and this remains a much less practical concern—as we hope you discover, history is more than names and dates. At best, the study of history can be a cure for ignorance, prejudice, and provincialism. And at the very least, it is an interesting story about who we are as a community, a nation, and a people.

If your interests remain in the academic world, know that our students have gone on to many top-flight colleges and universities. Recent UMKC history majors have pursued graduate study at the state universities of Virginia, Texas, Connecticut, Iowa, New York, Mississippi, Kansas, Kentucky, Florida, Michigan, and California-Berkeley as well as Ohio State, Southern Methodist, Marquette, Notre Dame, Washington University, University of British Columbia, Texas Tech, Georgetown, Northwestern, London School of Economics, NYU, Queen’s College-Belfast, King’s College-London, and Cambridge. Individuals seeking careers as teachers and professional historians may pursue advanced degrees on this campus. The department offers the master of arts degree and participates in the Interdisciplinary Ph.D. program. Students interested in graduate studies should contact the principal graduate advisor, Miriam Forman-Brunell, or for the Interdisciplinary Ph.D. program, contact Andrew Bergerson.

Department Activities

Advising
Counseling is key to a meaningful and profitable course of study in the department. Students should consult the principal undergraduate faculty advisor regarding selection of courses and for help in academic matters. Students may select an advisor, or an advisor can be appointed by the principal undergraduate advisor. Faculty office hours and prospective schedules of courses are posted in the department office, located in 203 Cockefair Hall and on the department Web site http://cas.umkc.edu/history. The department offers printed guides to the requirements for its graduate degrees.

Special Programs

Teaching Certification in Social Studies
Certification as a middle school (grades 5-9) or secondary (grades 9-12) social studies teacher in either Kansas or Missouri requires that a student complete specific requirements in history, political science, economics, geography, behavioral sciences and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

Applied History
Courses offered by the department prepare graduates for a variety of careers in historical agencies or in the study and preservation of cultural artifacts. For further information concerning archival methodology, consult Linna Place. For course offerings in material culture, contact Miriam Forman-Brunell.

The History Club
Founded in 1999, with the purpose of promoting the study of history, the History Club is open to all UMKC students, history majors and non-majors. The club sponsor is Diane Mutti Burke.

The History Graduate Student Association
Students participating in the Masters and IPhD program are automatically members of the History Graduate Student Association (HGSA). Each year the HGSA sponsors two events: the Graduate Student Orientation and the Graduate Student Conference at Diastole. The faculty advisor is John Herron.
Interdisciplinary Ph.D. in History
History is an academic discipline eligible for full participation in UMKC's Interdisciplinary Ph.D. Program. Students interested in this study should review the School of Graduate Studies section for general and discipline-specific admission criteria, academic regulations, and degree requirements. Interested students should contact the department's doctoral program adviser, Andrew Bergerson.

Master of Arts: History
This master’s program is designed for students who already have completed a non-terminal baccalaureate degree with a major in History or a related field. Students may pursue this master’s degree as a terminal degree or may leave open the option of continuing to a doctorate.

In this program, students will typically develop an in-depth knowledge of three fields of historical scholarship in their areas of interest, including chronology, bibliography, major themes and interpretations. Students may find that they develop these interests in the process of their interaction with the department faculty.

In the process of developing this advanced knowledge, students will also be expected to master the skills of historical scholarship. They will learn:

1. How to recognize, demonstrate, and apply appropriate knowledge of the world’s civilizations and peoples as well as their political, economic, social, and cultural histories.
2. How to identify and employ primary and/or secondary sources to research a topic exhaustively.
3. How to relate the events in his/her particular story to the general history of the topic; and the student relates his/her interpretation to the interpretations of other historians, or to theorists or scholars in other disciplines.
4. How to use primary and secondary sources to construct an original historical interpretation, demonstrating competency in identifying a problem, posing a hypothesis, proposing a methodology, and engaging the data.
5. How to critically appraise alternative readings of the past, create a coherent historical interpretation, and take a critical position in these debates.
6. How to compose and present clear, well-organized, properly documented grammatical prose.

Fields of History Offered by Regular Graduate Faculty
William B. Ashworth, Jr.  Science, Renaissance, Early Modern European
Andrew S. Bergerson  Modern European, Modern German, Everyday Life, Material Culture, German Studies
Gary L. Ebersole  Religious, Japanese, Cultural
Miriam Forman-Brunell  Everyday Life, Material Culture of Girls and Women/Gender in U.S. History
David Freeman  Early Modern European, Dutch, Religion, German Studies
Viviana Grieco  Colonial and Modern Latin American, Gender and Sexuality, Political Culture, Economic and Social
John Herron  Environmental, Western United States, 19th and 20th Century United States
Dennis Merrill  U.S. Diplomatic, Contemporary U.S., Modern Latin America, Globalization, International Relations
Linda E. Mitchell  Medieval British Isles, Women & Gender, Medieval Legal & Administrative, Ancient Greece & Rome
Diane Mutti Burke  19th Century America, American South, Civil War, Early American Women, U.S. Social History
Matthew Warner Osborn  Early America
Lynda S. Payne  Modern British, Science, Medicine, Gender, The Body, Women, Early Modern
Tracks
In addition to these topical areas, students may opt to focus their graduate studies on a particular track. Tracks allow students to develop a specialization in a particular approach to or application of history. The tracks currently available to students are:

Microhistory
Microhistory refers to a study of the past that interrogates small-scale contexts and proximate interactions. It includes biography and autobiography, community studies, ethnography, everyday life, material culture, and oral history. This track can prepare students for any career but it particularly applicable to academia or teaching. Microhistorians seek to understand the origins, operation, and implementation of macrohistorical forces at the immediate level.

Public History
Public history refers to the application of cutting-edge historical research to make it accessible to a wider, typically non-academic public. This track prepares students for professional positions in archives, memorials, museums, and rare-book rooms as well as for work in broadcast and electronic media. Public historians interrogate the operation of history and memory in the present and seek to foster critical engagement about the past.

Tracks may be combined with any fields of study offered in our department. Students interested in tracking their studies may announce their interest in their application or at any time before the completion of their 12th credit hour.

Program Options
The Department of History offers two options leading to the master of arts degree. Both require 36 credit hours.

- M.A. in History with Thesis. This degree is for students who want to keep open the option of continuing their education beyond this degree.
- M.A. in history without Thesis. This degree is for students wishing to conclude their history education with this degree.

Students in either the microhistory or the public history tracks may only complete their degree "with thesis" though the format requirements and options for the final project depend on the track.

The Department of History will consider for admission as a regular graduate student any student:

- Whose undergraduate major was History.
- Who had a 3.0 grade-point average in History courses and a 3.0 grade-point average overall.

Applicants who do not hold an undergraduate degree in History, but whose baccalaureate program included substantial training in History and/or related subjects, may also be considered for regular admission. In order to be admitted into the program, applicants must provide evidence that they have scored a minimum of 150 on the GRE, or a minimum score of 80 (internet) or 550 (paper) or 213 (computer) on the TOEFL and a minimum score of 4.0 is required for English as Second Language speakers.
Applicants must submit all of the following supplemental materials in addition to the basic admissions application:

1. An autobiographical essay (typically 2 pages long),
2. An essay detailing your scholarly interests, including if possible: the faculty with whom you wish to study (typically 2 pages long),
3. A sample of your scholarly writing,
4. Three letters of recommendation, and
5. A completed admissions application.

It is crucial that the entire application be completed and supplementary materials submitted in three steps:

1. Send copies of your official test results to the Office of Admissions.
2. Complete the admissions application online at www.umkc.edu/admissions/.
3. Send copies of your official test results and letters of recommendation to:

Mailing Address
University of Missouri-Kansas City
Office of Admissions, Administrative Center, Room 120
5115 Oak Street
Kansas City, MO 64110-2499

Complete the supplementary application process online at www.umkc.edu/grasp/ Please take great care to answer all questions. You submit application materials, including letters of recommendation and writing samples, by faxing them directly to (573) 884-4898 for domestic students or -4894 for international applications.

Do not send anything directly to the Department of History. It is your responsibility to confirm the receipt of all materials by the due date.

Completed applications are due by March 15, for admission in the Fall semester of the new academic year and October 1, for admission in the Spring semester of the following calendar year. The History Department does not accept students for admissions beginning in the Summer semester.

Financial Aid
There are a limited number of Graduate Teaching Assistantships available. For information and forms, contact the History office directly. The School of Graduate Studies also administers graduate fellowships and scholarships. For all other inquiries about financial aid, contact:
Financial Aid and Scholarships Office
Administrative Center, Room 101
5115 Oak Street
(816) 235-1154 (Kansas City Metro)
1-800-775-8652 (Outside of Metro)
Fax: (816) 235-5511
finaid@umkc.edu
http://www.umkc.edu/finaid

Student Orientation
If admitted, students will be asked to sign a letter of intent to enroll. Students should schedule a meeting with the Masters Advisor. During this meeting the student will be assigned a faculty mentor. The faculty mentor will:

- serve as a personal connection to the department

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• assist the student in all matters professional during their study in the department
• and may continue even after the student has identified a Faculty Advisor (their content specific instructor).

The History Graduate Student Association will host an annual Graduate Student Orientation during the weeks prior to the start of the Fall semester. At which students will be:
• introduced to the program curriculum and administration and
• encouraged to build working relationships with faculty and peers.

Minimum Expectations
Students must demonstrate satisfactory progress towards the completion of their degree. In all courses students must

1. Receive a grade of 2.67 or higher in all courses taken in the History Department.
2. Maintain a minimum cumulative 3.0 graduate GPA.
3. Adhere rigorously and conscientiously to academic standards of honesty (see below).
4. Demonstrate serious commitment to scholarship and intellectual engagement.
5. Abide by all requirements of the School of Graduate Studies (see School of Graduate Studies section of the Graduate and Professional Catalog), in addition to those of the Department of History.

In terms of administrative procedures, students must punctually file the following forms, each of which must be approved by the M.A. adviser, the faculty adviser and the other members of the supervisory committee:

1. A tentative program of study, and the form listing the initial members of the Supervisory Committee, by the 15th of October or 15th of March before the completion of the student's 15th credit hour.
2. A final program of study, and the form listing the final members of the supervisory committee, by the 15th of October or 15th of March before the completion of the student's 30th credit hour.
3. The student must have identified a Faculty Advisor who has agreed to serve as the student’s lead instructor for the semester of study. Faculty Advisors, like tentative programs of study, may be changed over the course of a student’s study.

Each year students are required to submit a formal report of their progress toward their degree. The narrative statement should include a description of students’ coursework, exam preparation, research activities (including progress toward the thesis/dissertation/final project, conference activities, publications, exhibits, and the status of grant applications), awards, and internships, as applicable. In addition, students should outline their goals for the coming academic year.

Students in the microhistory or public-history tracks must declare their intent to track their studies by the completion of their 12th credit hour by forming a viable committee and completing a program of study.

Extemporizing Circumstances
Students incapable of meeting administrative deadlines may request an extension from the M.A. adviser. These requests must be made in writing in advance of the deadlines. Incompletes will be given only when there are legitimate reasons for not completing course requirements on time, and only when there are reasonable expectations that work can be completed within the time allowed by the School of Graduate Studies (maximum of one year).
Probation
Failing any of these conditions means that the student is not making satisfactory progress towards the completion of her/his degree. In that case, the student will be placed on probation and will have to petition the department, through a letter to the M.A. adviser and graduate committee, for permission to resume his or her studies the following semester. The department will then recommend a reasonable plan for remediation. If the student fails to meet the standards set by the department, the student will be declared ineligible for enrollment and dropped from the program.

Academic Dishonesty
Plagiarism is an inexcusable act in the view of the History faculty. Any student guilty thereof will be liable to expulsion from the program. A detailed statement by the faculty is available in the History office. Please refer to the UMKC Student Standard of Conduct.
Research dishonesty refers to any conduct that is intended to mislead or communicate false research data or results, or which communicates such data or results in reckless disregard of their false or misleading character. Illustrations of research dishonesty include, but are not limited to, the following:

- False or misleading statements or publications concerning research data or results
- Intentional or reckless distortion or misinterpretation of research data or results
- Use of research methods which the researcher knows to be unreliable or which produce erroneous results, unless appropriately explained in publications and reports of the research
- Release of research data or scholarly efforts of other persons, and representing them as one's own or failing to give appropriate credit to their sources
- Misuse of the work of others or misrepresentation of authorship as that of the student

The Supervisory Committee
The supervisory committee consists of three full-time, regular members of the UMKC History Department who are also members of the graduate faculty, with the student’s faculty adviser serving as chair of this committee.

- **For non-thesis students**, the supervisory committee will ordinarily serve as the final examining committee. In consultation with the supervisory committee, the student should select fields for examination.
- **For thesis students**, the supervisory committee will serve as the readers for the thesis.

With the approval of the faculty advisor:

- One member of the committee may be a full-time, regular member of another UMKC department so long as that person is also a member of the graduate faculty.
- A fourth member may be added to the committee from the adjunct graduate faculty or from the graduate faculty of another institution.

Students tracking their studies towards Microhistory or Public History are required to have at least one member of the faculty whose scholarship involves the appropriate approach. Public-History students are permitted, and strongly encouraged, to include one or two members of the adjunct graduate history faculty on their committees who work professionally in the field of public history in the Kansas City region.
Final Masters Examination for Non-Thesis Students

Candidates for the M.A. degree without thesis will be examined in two fields. One Chronological/National and one Topical/Interdisciplinary (refer to the Department Web site for a complete list). In each, the student must demonstrate mastery of the historical knowledge
1. including chronology, bibliography, major themes and interpretations,
2. implying that the student’s knowledge significantly exceeds his or her class work, and
3. reflecting an in-depth knowledge of that field of historical scholarship.

In all of the fields, students must also demonstrate mastery of the skills of historical scholarship. This means:
• in writing and orally, to summarize a body of literature and take a critical position in that historiographic debate,
• to use particular historical facts to draw interpretive conclusions,
• to use historical interpretations to engage in critical debates about how history should be written.

In terms of procedure, students will typically:
1. Propose a list of no fewer than 25 landmark monographs and essays to each committee member that reflect the trends and debates in the field for which they are responsible.
2. Meet with the individual member of the faculty to discuss these texts (possibly as part of Non-Thesis Reading/Research 5597).

When the student has demonstrated his/her preparedness to each individual member of the committee, the faculty committee will
1. Meet to develop an integrated set of questions for that particular student’s exam.
2. Meet with the student in advance of the examination to explain what is expected.

Written exams will be held on the Monday, Tuesday and Wednesday of the 4th week before "finals week". The student will typically be given:
1. One exam per field
2. One exam per day
3. Three hours for each exam
4. A choice of questions for each exam

At least one week later, but before classes are finished, the student will be examined orally for no more than two hours in which the exam is discussed by faculty and students and follow-up questions are posed. Students are encouraged to reflect on their own written examinations. Each examiner will evaluate the examination according to the following scale: Superior, Good, Fair, and Inferior (Fail). A grade of Fair or better in all three fields is required for the award of the master’s degree.

Master's Thesis (for the Thesis Option)
Candidates for the M.A. degree with thesis will be required to write an original piece of historical scholarship based on their own research in primary sources and to make a contribution to the existing literature on the subject. By the 15th of October or 15th of March (before the completion of their 30th credit hour) the student must submit a research proposal for the thesis, approved by the faculty adviser, to the M.A. adviser for filing. Students should:
1. Meet regularly with the faculty adviser during research and writing.
2. Solicit the advice of the other members of the committee before submitting a final draft to the entire committee.
The completed thesis will:
1. Summarize the literature/s relating to this area of research and take a critical position in it/them, engaging questions about chronology, bibliography, major themes and interpretations.
2. Explain and justify its theory and methodology.
3. Tell a story about the past eloquently on the basis of primary sources.
5. Comply with all formal and administrative, University-wide guidelines for thesis submission. (Students are highly encouraged to attend a workshop offered by the School of Graduate Studies on proper thesis format held typically during the third week of each semester.)

The final draft of the thesis is due no later than two semesters after the completion of coursework. Written requests for extensions to this deadline, approved by the faculty adviser, should be submitted to the M.A. adviser in advance of this deadline. Students must abide by the Completion Timeline for Theses and Dissertations prescribed by the School of Graduate Studies (see Appendix for links.)

Defense of Master's Thesis
Candidates for an M.A. degree with thesis will be required to defend their thesis in an oral examination, advertised and open to the public, in which the student will
1. Make a 20 minute conference-style presentation of his/her research.
2. Respond to questions from the audience and the committee about events, interpretation, theory, method and historiography.

Each examiner will evaluate the thesis according to the following scale: Superior, Good, Acceptable, Acceptable with Revisions, and Unacceptable (Fail). A grade of Acceptable or better by all members of the committee is required for the award of the master's degree.

Honorary Organizations
The department sponsors a chapter of the national history honorary, Phi Alpha Theta. Admission into the honorary requires a 3.2 grade-point average in a minimum of 12 credits of graduate work. The honorary sponsors programs and lectures during the school year, and members are often invited to read papers at the regional conventions. Membership in Phi Alpha Theta is noted on each honoree's official transcript. Students should strongly consider membership in professional organizations for historians, such as the American Historical Association (http://www.historians.org) and others.

Language Requirements
The M.A. in History with thesis will require demonstration of foreign language competency if the subject matter requires it. The faculty adviser will determine how this requirement should be fulfilled. The M.A. in History without thesis does not require foreign language competency.

Course Requirements
Students seeking to fulfill either program option are required to complete a minimum of 36 credits of graduate-level work which must include completing the following courses with a grade of 2.67 (B-) or better:
1. How To-History I & II (HISTORY 5581 and HISTORY 5582) for a total of 6 credits,
2. A minimum of two graduate level Colloquia (HISTORY 5585 and/or HISTORY 5586) for a minimum of 6 credits, and
3. A minimum of one Research Seminar (HISTORY 5587) for 3 credits.

The department encourages students to take all of the remaining courses in their curriculum (21 credits) in the History department at the 5500 level. With the approval of the student's faculty adviser, however,
students may take up to 6 credits at the 400 level if these fit with their overall program of study. Students may also take up to 9 credits in courses outside the department provided:

1. They are demonstrably graduate level courses.
2. They clearly relate to the student's program of study.
3. The student receives the approval of her/his supervisory committee.

Students may transfer up to 20% of the graduate credit hours appearing on the final program of study from another recognized graduate school.

Students in the Microhistory Track are encouraged to study abroad for one semester through exchange programs to universities associated with the Microhistory Network. One particularly viable option includes the MAUI-Utrecht Network Exchange which allows students to pay UMKC tuition to study in many different European universities. With the approval of the student’s committee, students may transfer up to 12 credits from a recognized graduate school in courses specifically focused on Microhistory. Non-Thesis students may take up to 6 credits of Non-Thesis Research/Readings (HISTORY 5597) in which they receive one on one instruction in areas of their own special interest (a course offered at the discretion of individual instructors).

Thesis-option students must take at least 1 and no more than 6 credits of Thesis Research/Readings (HISTORY 5599R) in which they receive one-on-one mentoring as they develop their own contribution to knowledge based upon extensive research, reflection, and careful analysis (a course offered at the discretion of individual instructors).

**Track Requirements**

**Students in the Microhistory Track** must complete all of the required courses for the MA with thesis. They must take the Research Seminar (HISTORY 5587) in one of the following topics: Life Histories, Everyday Life, or Material Culture. They must also take one or two relevant courses in Anthropology, Art History, English, Foreign Languages & Literatures, Religious Studies, or Sociology. All courses and coursework throughout the program must involve Microhistory. All curricular decisions must be approved in advance by the student's committee.

**Students in the Public History Track** must complete all of the required courses for the MA with thesis. They must also complete HISTORY 5592 a or b, the Archival or Public History Internship as well as HISTORY 5593 Museum Studies. They must also take one or more courses (with no maximum) in Anthropology, Archeology, Architecture & Urban Planning, Art History, Communication Studies, English, or Sociology. All courses and coursework throughout the program must involve public history. All curricular decisions must be approved in advance by the student's committee.

**Colloquia**

These courses form the knowledge base for the graduate and doctoral program. Divided for purely administrative reasons into “American” and “World”, students are encouraged to take as many of these as can fit into their Program of Study. One of each is offered each Fall and Spring semester in the evening. In them, students will

1. Read broadly and learn about the major trends in the historiography of a particular historical problem, place, period, or specialization.
2. Develop fundamental skills of the professional historian such as the ability to write academic book reviews, make conference-style presentations, and discuss among peers the work of other historians critically.

This course typically culminates in the production of a term paper and/or literature review on a subject of the student’s interest that could serve as the context for a future research project or comprehensive examination field.
Students in tracks must complete assignments that are appropriate for that track.

**How To-History**
These foundational courses in the doing of history are offered in a two-semester sequence in the evening.
- In Part I (Fall semester), students will learn about the major trends in historiography by reading the “great books” of historical scholarship and learn the basics of historical criticism; the major assignment is a literature review that will aid the students in preparing for How To-History II.
- In Part II (Fall semester), students will learn the research methodologies and professional obligations of historians; the major assignment is a viable research prospectus that will aid the students in preparing for their Research Seminar.

**Research Seminars**
Subjects include:
- Communities and Identities
- Gender, Sexuality and the Body
- Globalization and Internationalism
- Microhistory (Everyday Life, Life Histories, or Material Culture)
- Region and the Environment
- Science, Technology and Medicine
- Texts and Ideas

On a rotating basis, two of these courses are offered in the Spring semester in the evenings. Students may take two in the same semester only with the approval of their Faculty Advisor. In them, students will
- read a few examples of this field of scholarship,
- propose a viable research project with a professional prospectus,
- conduct historical research,
- write up the results to demonstrate a contribution to the existing literature,
- make conference-style presentations of their research, and
- discuss the work of other historians critically among peers.

This course culminates in the production of an article-length “publishable” paper based on primary research. Students writing superior papers will participate in a Graduate Student Conference at the end of the Spring semester. All masters students will attend this conference as an audience.

**Track Specific Requirements for the Research Seminar Paper**
**Microhistory**: a publishable article of original scholarship in microhistory of 10,550 to 14,000 words.

**Public History**:
- Either
  1. a 15-20 minute documentary based on original historical scholarship;
  2. an equivalent project in digital humanities; or
  3. an exhibition based on original historical scholarship with 5 displays and 10-15 items as well as a 12-15 page exhibition catalogue. Media options include: traditional, film, radio, online, and multimedia. A public display is required.

**Dual-Numbered Courses (300/5500 & 400/5500)**
Offered at a variety of times each semester, these courses expose graduate students further to major trends in the historiography of larger historical problems, places, periods, or specializations and allow them to hone their skills at academic history. Often taught in conjunction with undergraduate courses in the same subject area, graduate students in these courses will be held to a higher standard of knowledge and performance.
The Annual Graduate Student Conference
The History Department will host an annual Graduate Student Conference on Thursday afternoon and evening of the reading period in the Spring Semester (typically the last week in April or the first week in May). Graduate students should plan to attend as required by the program. In it, students will
- demonstrate their expertise in a research agenda of their own creation,
- present their research to peers and faculty,
- comment constructively and critically on the research of others,
- engage critical questions in public, and
- celebrate their academic achievements that year.
At the conclusion to this conference, the faculty will present two student participants with the Carla Klausner Award for the Best Paper Presentation in History and the Lynda Payne Award for the Best Poster Presentation in History.

Bachelor of Arts: History
The Department of History has developed a set of carefully crafted learning objectives. Simply put, history majors are expected to acquire specified levels of knowledge, perspectives and skills through the study of the past. The learning objectives are designed to help students succeed in their undergraduate history major, as independent, creative and self-directed learners. More important, they will help students to be successful in their pursuit of a career and to hold a lifelong appreciation for the humanities and social sciences. The objectives are enumerated as follows:

Knowledge of the Past
Students studying history will:
- Acquire knowledge of the world’s civilizations and peoples, and their political, economic, social and cultural histories.
- Gain in-depth knowledge of a historical field by specializing in one of several departmental concentrations.
- Gain exposure to a range of historical subjects outside the concentration.
- Complete at least one course that examines a non-western society.

Perspectives
Students studying history will:
- Develop a historical understanding of an increasingly multicultural society and interdependent world.
- Understand the variety and complexity of the human experience and foster an appreciation for processes of change.
- Comprehend how constructions of class, race and gender dynamically shape social structures, national identities and all forms of human relationships.
- Realize the interlocking relationships among science, technology, the environment and society.
- Appreciate the value of interdisciplinary perspectives and methods.

Analysis and Interpretation
Students studying history will:
- Critically evaluate secondary, textual evidence by identifying a thesis, noting sources and methods used in argument, discerning the conclusions and determining the perspective, bias and reliability of the argument.
- Think critically, and master the art of interpretive analysis based on the widest possible array of primary sources: written, material and other cultural texts.
Research and Communication
Students studying history will:
- Locate printed and online information sources to research a topic exhaustively.
- Write clear, well organized, properly documented and grammatical prose.

General College Requirements
The student must fulfill the requirements of the general college program as outlined in Undergraduate Academic Regulations and Information.

History Department Requirements
1. Each major shall concentrate in one area: Antiquity and Medieval; Early Modern and Modern Europe; United States; and Asia, Middle East and Latin America, or devise a thematic concentration and have it approved by the chair of the undergraduate studies committee.
2. Two courses, or 6 credit hours, are required in World Civilization: History 206 – 208 (or the History 201 – 202 sequence). These courses may also fulfill UMKC general education requirements.
3. Ten courses, 30 hours, in history at the upper division (300-400) level.
   - At least four of the courses, or 12 credits, must be inside the student's field of concentration.
   - At least four of the courses, or 12 credits, must be outside of the student's field of concentration and include at least one non-western course. In our department non-western courses include those that deal primarily with Africa, Asia, Latin America, Middle-East and indigenous North Americans.
   - The final two courses, or 6 credits, come from History 301 WI “Historiography and Method,” and History 498 WI “Senior Capstone Seminar.” These courses cannot be taken in the same semester and are not offered in the summer.
4. All history majors at UMKC are required to establish and maintain a portfolio of their undergraduate work. The portfolio is a measurement tool that will allow students and faculty mentors to monitor intellectual growth, acquisition and sharpening of skills, and mastery of historical knowledge.

Concentrations
The history department divides all upper division courses into areas of interest, or "concentrations." All majors are required to choose a primary concentration. The idea is that with focused study, students will gain an in-depth understanding of their topic. Students will also take additional courses from other concentrations to enlarge the scope of their historical knowledge.
- Antiquity and Medieval
- Early Modern and Modern Europe
- United States
- Asia, Middle East and Latin America (Non-Western)

Courses by Concentration
In reviewing the following list of concentrations and courses, keep in mind that new courses focused on specific topics relevant to professor’s research interests are offered every semester, though they may not be listed below.

Please note that one-hour courses and PACE courses cannot be counted toward a concentration.

Antiquity and Medieval
HISTORY 300CO Women in the Ancient World
HISTORY 306A History of Christianity to the Middle Ages
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HISTORY 400CF</td>
<td>Courts &amp; Culture in the High Middle Ages</td>
</tr>
<tr>
<td>HISTORY 400CL</td>
<td>The End of the Classical World, 300-800</td>
</tr>
<tr>
<td>HISTORY 400CY</td>
<td>The Ancient World &amp; the Cinema</td>
</tr>
<tr>
<td>HISTORY 411A</td>
<td>Medieval Civilization I</td>
</tr>
<tr>
<td>HISTORY 411B</td>
<td>Medieval Civilization II</td>
</tr>
<tr>
<td>HISTORY 412A</td>
<td>Medieval Women &amp; Children</td>
</tr>
<tr>
<td>HISTORY 412B</td>
<td>The Black Death &amp; Late Medieval Society</td>
</tr>
<tr>
<td>HISTORY 431R</td>
<td>Medieval England, 1066-1485</td>
</tr>
<tr>
<td>HISTORY 444R</td>
<td>Islam &amp; the Arabs: The Formative Period</td>
</tr>
<tr>
<td>HISTORY 464</td>
<td>Medieval Methods &amp; Paleography</td>
</tr>
<tr>
<td>HISTORY 468R</td>
<td>Archeology &amp; the History of Antiquity</td>
</tr>
<tr>
<td>HISTORY 469</td>
<td>Archeology &amp; Biblical History</td>
</tr>
<tr>
<td>HISTORY 470</td>
<td>Ancient Egypt</td>
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<tr>
<td>HISTORY 471</td>
<td>Ancient Greece</td>
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<tr>
<td>HISTORY 472</td>
<td>Ancient Rome</td>
</tr>
<tr>
<td>HISTORY 475WI</td>
<td>Nordic History &amp; Culture, 1750-Present</td>
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<tr>
<td>HISTORY 476</td>
<td>Medieval Jewish History</td>
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**Early Modern and Modern Europe**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HISTORY 300F</td>
<td>The Tudor Dynasty in Film</td>
</tr>
<tr>
<td>HISTORY 300G</td>
<td>Holy Roman Empire</td>
</tr>
<tr>
<td>HISTORY 300R</td>
<td>The Dutch Republic</td>
</tr>
<tr>
<td>HISTORY 300CN</td>
<td>The World Made Modern: World War I &amp; Popular Film</td>
</tr>
<tr>
<td>HISTORY 307A</td>
<td>History of Christianity Middle Ages to the Present</td>
</tr>
<tr>
<td>HISTORY 400C</td>
<td>Cinema of Eastern Europe</td>
</tr>
<tr>
<td>HISTORY 400CC</td>
<td>History, Nature, &amp; Culture in Sweden</td>
</tr>
<tr>
<td>HISTORY 400CJ</td>
<td>Nordic History &amp; Culture, 1750-Present</td>
</tr>
<tr>
<td>HISTORY 400CI</td>
<td>Culture, Kultur, Civilization: Identity Formation in Middle Class</td>
</tr>
<tr>
<td>HISTORY 400CM</td>
<td>Nazi Occupied Europe and the Holocaust</td>
</tr>
<tr>
<td>HISTORY 400CN</td>
<td>Civil War, Terrorism, and Trauma</td>
</tr>
<tr>
<td>HISTORY 400CZ:CC</td>
<td>The Other Europe</td>
</tr>
<tr>
<td>HISTORY 400F</td>
<td>Freud: Science &amp; Culture</td>
</tr>
<tr>
<td>HISTORY 413</td>
<td>Introduction to German Studies</td>
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<tr>
<td>HISTORY 414</td>
<td>Renaissance</td>
</tr>
<tr>
<td>HISTORY 415B</td>
<td>17th and 18th Century Europe</td>
</tr>
<tr>
<td>HISTORY 416R</td>
<td>The French Revolution and Napoleon</td>
</tr>
<tr>
<td>HISTORY 417R</td>
<td>Nations and Empires: 19th Century Europe</td>
</tr>
<tr>
<td>HISTORY 418R</td>
<td>The Age of Extremes: 20th Century Europe</td>
</tr>
<tr>
<td>HISTORY 419R</td>
<td>Contemporary Europe, 1930-2000</td>
</tr>
<tr>
<td>HISTORY 425R</td>
<td>European Criminal Justice, 1400-1800</td>
</tr>
<tr>
<td>HISTORY 426R</td>
<td>The Scientific Revolution, 1500-1700</td>
</tr>
<tr>
<td>HISTORY 427</td>
<td>The Darwinian Revolution, 1650-1900</td>
</tr>
<tr>
<td>HISTORY 428</td>
<td>History of the Body</td>
</tr>
<tr>
<td>HISTORY 430RA</td>
<td>We Are the Dead: The Great War through its Artifacts in History</td>
</tr>
<tr>
<td>HISTORY 432R</td>
<td>Tudor England, 1485-1603</td>
</tr>
<tr>
<td>HISTORY 433</td>
<td>Britain, 1603-1832</td>
</tr>
<tr>
<td>HISTORY 434</td>
<td>Britain, 1832-Present</td>
</tr>
<tr>
<td>HISTORY 436R</td>
<td>Modern German History</td>
</tr>
<tr>
<td>HISTORY 437AWI</td>
<td>Imperial Germany, 1848-1918</td>
</tr>
<tr>
<td>HISTORY 437BW</td>
<td>Weimar Germany</td>
</tr>
<tr>
<td>HISTORY 437CWI</td>
<td>Nazi Germany</td>
</tr>
</tbody>
</table>
HISTORY 437DWI Cold War Germany
HISTORY 437BWI First German Republics, 1917-35
HISTORY 440F Women & Medicine: Practitioners & Patients from Antiquity to Present
HISTORY 445 The Ottoman Empire in the Middle East to World War I
HISTORY 446R The Middle East From World War I to the Present
HISTORY 467 Myth & Ritual
HISTORY 473 History of Astronomy
HISTORY 477 Modern Jewish History
HISTORY 478 The Holocaust

United States
HISTORY 300BB Black Baseball as American Culture
HISTORY 300C Civil War in Memory and Film
HISTORY 300DM Dollars, Culture, & America’s Hemispheric Empire
HISTORY 300FBA History of Sexuality
HISTORY 300G Girlhood in America
HISTORY 300H Alcohol and Drugs in American History
HISTORY 300J History of Sport
HISTORY 300JH The American West in Film & Fiction
HISTORY 300K Masculinity in History
HISTORY 300L Labor & Leisure
HISTORY 300MBA Missouri/Kansas Border Wars
HISTORY 300MBB Social History and Material Culture of 19th Century America
HISTORY 300RH History of Fatherhood
HISTORY 300R History of the Family
HISTORY 300RI Labor and Leisure
HISTORY 300WY The Sixties
HISTORY 302 America, 1000-1763: The Formative Era
HISTORY 303 America, 1763-1783: The Revolutionary Heritage
HISTORY 304 America, 1783-1828: The National Experience
HISTORY 305 America, 1828-1852: The Jacksonian Period
HISTORY 306 America, 1850-1877: Civil War and Reconstruction
HISTORY 307 America, 1877-1917: Development of Industrial America
HISTORY 308A America, 1914-1945: The Era of the World Wars
HISTORY 308B America, 1945-Present: Our Times
HISTORY 353 Immigrants and Immigration in American History
HISTORY 354R Women in Modern America
HISTORY 356 Rise of the City
HISTORY 356R Kansas City: History of a Regional Metropolis
HISTORY 357 The American West
HISTORY 358 History of the American South I
HISTORY 359 History of the American South II
HISTORY 360R Constitutional History of the United States
HISTORY 361 American Foreign Relations
HISTORY 365A American Environmental History
HISTORY 366RR American Labor History
HISTORY 368 Children and Youth in American History
HISTORY 369 Women and Work in Early America
HISTORY 370 Introduction to Material Culture
HISTORY 392A Archival Internship
HISTORY 392B Public History Internship
HISTORY 393 Museum Science
HISTORY 394 African American History to 1877
HISTORY 395 African American History Since 1877
HISTORY 400 Sport & Film
HISTORY 400CP Silver Screen & the American Dream
HISTORY 400F Teaching Regional History/Watkins Mill
HISTORY 400K History of Motherhood
HISTORY 400Z Kansas City Labor History
HISTORY 401A Religion in America

**Asia, Middle East and Latin America (Non-Western)**
HISTORY 300D Religions of the Silk Road
HISTORY 300G China’s Imperial Past
HISTORY 300JH Indians of the Americas
HISTORY 400A Religion and Religiosity in Eastern Asia
HISTORY 400C Latin American Crises and Opportunities
HISTORY 400F Religion and Colonialism in Latin America
HISTORY 400JCA Chinese Civilization
HISTORY 400VGA Colonial Latin America
HISTORY 400VGB Modern Latin America
HISTORY 400VGC Women and Gender in Latin America
HISTORY 400VGD Environmental History of Latin America
HISTORY 424A Colonial & Postcolonial South Asia
HISTORY 424R Twentieth Century Asia
HISTORY 444Z Islam & the Arabs: The Formative Period
HISTORY 445 The Ottoman Empire in the Middle East to World War I
HISTORY 446R The Middle East From World War I to the Present
HISTORY 462J Japanese Civilization

**Minor in History**
A minor in history may be earned with a minimum of 18 credit hours of coursework in the discipline (at least 12 of which must be at the 300- and 400-level). A maximum of six of the 18 credit hours may be taken in two of the 100- and 200-level survey courses.
**Honors Program**  
Haag Hall, Room 204  
5120 Rockhill Road  
Kansas City, MO 64110  
(816) 235-2820  
Fax: (816) 235-5542  
http://cas.umkc.edu/honors

**Program Director:**  
Gayle Levy, Ph.D.  
Associate Professor of French  
levyg@umkc.edu

**Associate Program Director:**  
John Herron, Ph.D.  
Associate Professor of History  
herronj@umkc.edu

- Program Description
- Honors Courses

**Program Description**  
The UMKC Honors Program seeks to attract exceptionally motivated and academically talented undergraduates from every school and college at the University to study in an environment that encourages excellence.

The UMKC Honors Program is designed to enrich the college experience of the most outstanding students through the integration of traditional and novel approaches to learning from the behavioral and social sciences, the humanities, the hard sciences and other divisions of the University.

**Honors Credit**  
In order to accomplish these goals, all honors students have the opportunity to enroll in honors seminars and a weekly interdisciplinary colloquium taught by some of the best faculty on campus. Colloquium allows honors students to meet on a regular basis to discuss and debate important issues. Students follow a different theme each semester, selected based on faculty and student research interests. In Colloquium, all the honors students, freshmen and seniors alike, meet with UMKC faculty and distinguished guest lecturers to study and discuss subjects ranging from the environment to religion, from the fine arts to sports.

Honors credit may also be received from:  
- Specially designed honors seminars  
- Independent study  
- Undergraduate research  
- Honors contracts  
- Honors discussion groups  
- Senior Honors Thesis  
- Study Abroad

Honors students are encouraged and supported in the conduct of research and the publication and presentation of their work regionally and nationally. As seniors, honors students have the option to
complete a six-credit-hour project, the Senior Honors Thesis. Upon graduation, those who complete an honors thesis in addition to the basic honors requirements are designated as Honors Scholars.

**Program Initiatives**
UMKC offers a supportive atmosphere to encourage integrative thinking through an exciting Living/Learning Community and specialized advising with Honors Faculty Fellows. Leadership skills are honed through special institutes and unique seminars where students reflect on and analyze their community-service experiences. Finally, with an eye toward giving students a leg up on their graduate school and career goals, honors students are strongly encouraged to conduct innovative individual and collaborative research or artistic activity in the form of the Senior Honors Thesis.

Some of the other advantages that the UMKC Honors Program offers students include:
- Priority enrollment during registration.
- Specially designated general education courses for honors students.
- Tickets to all UMKC Theatre productions.
- Graduate-level borrowing privileges at Miller Nichols Library.
- Individual advising to prepare honors students to compete for national scholarships (i.e., Rhodes, Marshall, Truman and Goldwater).

**Admission to the Honors Program**
To be considered for admission, a first-year student should:
1. Score in the top 10 percent on the ACT or SAT
2. Rank in the top 10 percent of their high school class

Students not meeting these criteria may apply for admission to the Honors Program and will be given consideration on a case by case basis. For incoming freshmen, a total of 28 hours of honors credit is required to receive a bachelor's degree with general honors.

Transfer students generally need to meet at least one of the following criteria in addition to providing recommendations from two instructors:
- Fulfill those criteria set for first-year students
- Have a GPA of at least 3.7
- Have participated in their previous college’s Honors Program

Continuing UMKC students are encouraged to apply to the Honors Program. Minimum requirements for admission are a 3.5 UMKC grade-point average and the recommendation of two UMKC professors. For transfer and continuing students, a total of 25 hours of honors credit is required if the student enters the Honors Program with more than 25 credits but less than 50, and a total of 21 hours of honors credit is required if the student enters the program with 50 or more credits.

The Honors Program application may be found at the Honors website http://cas.umkc.edu/honors. Applications for fall semester are accepted during the previous spring semester and are due by March 15. Late applications will be given consideration by the review committee. Applications for the spring semester are due by October 31.

**Continued Participation in the Honors Program**
Honors students are required to register for the Honors Colloquium at least three-fourths of the time they are enrolled in the UMKC Honors Program. Additionally, a minimum overall grade-point average of 3.2 is required for all honors students for continued participation in the Honors Program. Students whose overall grade-point average drops below a 3.2 have a one-semester grace period during which time they can remain in the Honors Program while they work on bringing their cumulative grade-point average above the 3.2 minimum. If, at the end of the grace period, the student's grade-point average is still below a 3.2, the student will be dropped from the Honors Program. In view of certain extenuating circumstances,
and in consultation with the student's academic adviser, the director of the Honors Program may choose to allow the student to remain in the program.

**Honors Certificate for Pharmacy Program Students**
Honors Program students who are Pharmacy majors will be awarded an honors certificate of recognition upon successful completion of their undergraduate and Honors Program requirements. This certificate will serve as the equivalent of the honors notation for the baccalaureate diploma and transcript.

**Honors Living/Learning Community**
The UMKC Honors Program, in collaboration with the Department of Residential Life, sponsors the Honors Living/Learning Community. Located in UMKC's Oak Street Hall, this community of honors students has the opportunity to live and learn together through cohort classes, special programs and events, informal interaction with UMKC faculty, social activities and community service. The program is designed to build cohesive community among the honors students, promote student and faculty engagement, and provide continuity of the intellectual learning experience outside of the classroom.

**Lucerna, the Honors Program Undergraduate Journal**
The Honors Program produces *Lucerna*, UMKC's only research journal open to papers written by UMKC undergraduates. The honors students oversee all aspects of production of the journal, from soliciting submissions to publicity to editing the chosen papers. *Lucerna* is published annually.

**Study Abroad**
Members of the UMKC Honors Program are strongly encouraged to spend a summer, a semester, or a year studying in a foreign country. Taking classes and living abroad is one of the most personally and intellectually fulfilling experiences a student can have while an undergraduate. The Honors Program organizes a summer study abroad program to Uppsala, Sweden; however, in consultation with the Honors Director, students can earn honors credit by participating in any study abroad program. For more information on Study Abroad, see http://www.umkc.edu/international.

**The Honors House**
The Honors Program is pleased to invite all honors students to make use of the Honors House: 5317-19 Holmes, 3rd Floor. Members of the Program have free access to space where they can meet, study, conduct discussion sessions, etc.

**SEARCH: Students Engaged in Artistic and Academic Research**
Honors students completing the senior honors thesis or undergraduate research are encouraged to present their findings at the annual SEARCH Symposium for Research and Creative Achievements. The purpose of this symposium is to display and celebrate undergraduate participation in outstanding research and other creative endeavors. Presentations may be in the form of poster presentations or other performance media displaying creative works. For more information, see the SEARCH website.
**Judaic Studies**

The Department of History is a major participant in the Judaic Studies Minor and Concentration. For a minor in Judaic Studies, students must complete a minimum of 18 hours of coursework. These courses should include:

1. HISTORY 475WI History of Ancient Israel.
2. HISTORY 476 Medieval Jewish History.
3. HISTORY 477 Modern Jewish History.

In addition, students should take several semesters of Hebrew language. The remaining credits may consist of electives approved by the Interim Judaic Studies adviser.

For a concentration in Judaic Studies, a student must complete 15 hours of coursework that includes the History courses listed above. Those pursuing the concentration are also encouraged to include study of the Hebrew language.

For further information, contact Dr. Carla Klausner, Professor of History and Interim Director of Judaic Studies.
**Liberal Arts**

**BLA Program Description**
The College of Arts and Sciences offers the bachelor of liberal arts (B.L.A.) degree for individuals who seek scientific literacy, an understanding of the social sciences and an appreciation of the humanities. The B.L.A. is an alternative to the B.A./B.S. degree programs and is for individuals who do not wish to commit themselves to a specialty, whose aspirations are not served by a traditional major, and who desire maximum flexibility in course selection. Additionally, students who have found the B.L.A. degree particularly beneficial are those who have matriculated into the six-year medical program and pursue the combined B.L.A./M.D. degrees and those students wishing to apply to the UMKC School of Law through the Early Entry Law Program.

The B.L.A. degree can also be earned through the Program for Adult College Education, PACE. This program makes it possible for individuals with full-time work or home responsibilities to complete a baccalaureate degree in a reasonable time by attending class in the evenings and on weekends, by registering for the corresponding independent study courses, by connecting to online courses via the Internet, and through approved internships. For a detailed description of this program, see the Program for Adult College Education (PACE) section in the program listings under the College's section of the catalog.

**Potential for Graduate Study**
Students completing the B.L.A. degree have the potential to pursue graduate study in many areas. One option is the master of arts in liberal studies, a master's degree similar in structure to the B.L.A., which continues the tradition of interdisciplinary work in the College at the intermediate level between baccalaureate and doctoral work. Students completing the B.L.A. degree who wish to continue their education at the graduate level are strongly encouraged to seek counsel from a graduate adviser in that discipline early in their undergraduate career.

- Bachelor of Liberal Arts
  - Program Requirements

**Bachelor of Liberal Arts (B.L.A.)**

**Curriculum Degree Requirements**

**Hour Requirements and Eligibility**
At least 30 hours of coursework in the arts and sciences must be earned before declaration of intent to pursue a bachelor of liberal arts (B.L.A.) degree. Additionally, at least 30 hours of coursework must be earned after declaration of intent to pursue the B.L.A.

A 2.0 GPA is required to declare intent to pursue the B.L.A. and a 2.0 overall GPA is required by the University of Missouri for graduation.

A minimum of 120 hours is required for graduation. At least 90 of these hours must be earned in the arts and sciences. At least 36 of the total hours must be at the junior/senior (300-400) level in the College of Arts and Sciences.
The credit/non-credit option is not available for students pursuing this degree.

**Area Requirements and Limitations Applicable to This Degree**
The B.L.A. degree is separated into three divisions:

- Humanities
- Natural Sciences/Math
- Social Sciences

At least 21 hours must be earned from each division above; however, no more than 60 hours from any one division may be applied toward the B.L.A. degree. Additionally, coursework must be taken from at least two departments in each division, with no more than 21 hours taken in any one department.

Students should note that some departments within the College of Arts and Sciences (for example, geosciences and history departments) offer coursework that can be applied to more than one division. Students should consult with an adviser in selecting coursework to ensure that they receive proper credit in the various divisions required for the degree.

Students are encouraged to identify one of the three divisions as an area of concentration up to the 60-credit-hour maximum. The curriculum of this concentration area should match the student's particular interests and should be designed in conjunction with an adviser. Additionally, students who wish to have a more specific focus within a division of the B.L.A. degree may elect to complete a minor through an academic department.

**Minor Option**
Students may elect to complete a minor by working with the departmental adviser corresponding to the minor selected. Students must keep in mind that the 21-hour maximum in any one department still applies to students pursuing a minor through the B.L.A. degree. Among the minimum 21 hours in each division, the following specific requirements must be included:

**Humanities Division**
All students pursuing the B.L.A. degree must complete a minimum of 21 credit hours in the humanities division. A maximum of 60 credit hours from the humanities may be applied toward the B.L.A. degree. Additionally, a maximum of 21 credit hours may be taken from any one department. Students may select humanities courses from the following departments/areas:

- Art and Art History.
- Communication Studies.
- English.
- Foreign Languages.
- Philosophy.
- Theatre.
- Other courses designated specifically as Humanities.
Specific requirements include:

1. **ENGLISH 110 or HMNTY 105P.**
   - This requirement should be taken as early as possible, preferably in the first semester of enrollment.
   - This requirement may be satisfied by scoring a 30 or higher on the English subsection of the ACT or a 690 on the verbal subsection of the SAT.

2. **ENGLISH 225 or HMNTY 202P.** Students are encouraged to complete this requirement during their sophomore year.

3. **The UMKC Written English Proficiency Test (WEPT).** The WEPT is a prerequisite for all Writing Intensive courses and should be taken after a student has completed ENGLISH 225 and 45 credit hours. The WEPT is also a graduation requirement for all students. Those who fail the WEPT twice must take ENGLISH 299; this course, which does not count toward the degree, will satisfy the WEPT requirement for students who earn a C- or better in the course. The WEPT is given twice each semester; the dates of the test appear regularly on the academic calendar in the Schedule of Classes.

4. **A Writing Intensive course.** Writing Intensive courses are designated with WI or PW following the course number. Writing intensive courses should be completed during the junior or senior year and after the completion of the three requirements above.

**Natural Sciences/Math Division**

All students pursuing the B.L.A. degree must complete a minimum of 21 credit hours in the natural sciences/math division. A maximum of 60 credit hours from natural sciences/math may be applied toward the B.L.A. degree. Additionally, a maximum of 21 credit hours may be taken from any one department. Students may select natural science/math courses from the following departments/areas:

- Chemistry.
- Computer Science or Information Technology.
- Environmental Science.
- Geography (physical geography only, which includes: 150, 203, 215, 314, 319, 335, 336, 360, 401, 402, 404, 406, 426, 430, 435, 442, 444, 448, or 450).
- Geology.
- Mathematics.
- Physical Science.
- Physics.
- Biology.
- Other courses designated specifically as Natural Science.

Specific requirements include:
Mathematics (3 hours minimum). To fulfill this requirement, each student must:
• Demonstrate mathematical competency equivalent to four units (years) of acceptable high school mathematics, beginning with Algebra I or higher; or
• Complete Mathematics 110, 116, 120, 160 or 210.
Laboratory Science Course (4 hours minimum). At least one science course of the minimum 21 hours in this division must include a laboratory component.

Social Sciences Division
All students pursuing the B.L.A. degree must complete a minimum of 21 credit hours in the social sciences division. A maximum of 60 credit hours from the social sciences may be applied toward the B.L.A. degree. Additionally, a maximum of 21 credit hours may be taken from any one department. Students may select social science courses from the following departments/areas:
• Criminal Justice and Criminology.
• Economics.
• Geography (regional or cultural, which includes GEOG 105, GEOG 200, GEOG 202, GEOG 210, GEOG 300, GEOG 309, GEOG 311, GEOG 329, GEOG 332, GEOG 333, GEOG 340, GEOG 341, GEOG 342, GEOG 350, GEOG 351, GEOG 352, GEOG 355, GEOG 398, GEOG 403, GEOG 405, GEOG 410, GEOG 415, GEOG 435, GEOG 437, GEOG 460, GEOG 489, or GEOG 496 only).
• History.
• Political Science.
• Psychology.
• Sociology.
• Urban Planning and Design (UPD).
• Other courses designated specifically as Social Science.

Specific requirements include a Constitution Requirement (three hours minimum). Every student must fulfill the Missouri state requirement to take a course covering the United States Constitution and the Missouri State Constitution before graduation. Courses that satisfy this requirement are:
• History 101, 102 or 360R (American History);
• Political Science 210 (American Government); or
• Social Science 102P.
**Liberal Studies Program**

**Master of Arts in Liberal Studies**

**Office Location:** 5317 Holmes, 2nd Floor 816-235-6257

**Mailing Address:**
University of Missouri - Kansas City
Master of Arts in Liberal Studies Program
Cockefair Hall 106
5100 Rockhill Road
Kansas City, MO 64110-2499
mals@umkc.edu

**Program Director**
Jeff Rydberg-Cox, Ph.D., Professor, Department of English, rydbergcoxj@umkc.edu, 816-235-2560

**Program Adviser**
April Austin, Ph.D., austinal@umkc.edu

**Program Research Associate**
Marsha Carothers, 816-235-6257, mals@umkc.edu

- Student Learning Outcomes
- Program Description
- Master of Arts in Liberal Studies
  - Admission to the Program
  - Requirements for Completion of the Degree
- Relationship of the MALS to Interdisciplinary Doctoral Degrees

**Master of Arts in Liberal Studies**

Individuals admitted to the program must have a baccalaureate or equivalent degree and mature academic interests. A minimum undergraduate 3.25 GPA is desirable but can be offset by professional and career accomplishments outside academe.

Individuals applying for admission should submit, in addition to the UMKC application, the following documents:

- a statement of purpose in the form of a personal essay of approximately 1,000 words outlining the focus area the applicant wishes to pursue, his or her reasons for applying, and his or her academic plans and goals. Any applicant who does not choose one of the specific certificate programs or focus areas listed for the MALS program should also include a statement indicating interest in designing an individualized plan of study. Such a statement should indicate the proposed area of study and a list of courses offered in the College of Arts and Sciences that would contribute to the area of study.
- a sample of recent academic writing
- 3 letters of recommendation
These documents (except the UMKC application) should be sent directly to the Master of Arts in Liberal Studies Program. They can be sent as Word documents or PDFs attached to an email to carothersm@umkc.edu or in print form to Ms. Marsha Carothers, Research Associate, MALS Program, Cockefair Hall 106, UMKC, 5100 Rockhill Road, Kansas City, MO 64110.

Prior to submitting an application, prospective students should speak with the program adviser or a member of the faculty who works in their chosen focus area.

The deadline to apply for Fall Semester 2012 is August 1, 2012. The deadline to apply for Spring Semester 2013 is November 1, 2012.

The degree is a 36 credit hour program. Generally, each participant's plan of study will consist of three parts, which include:

1. Introductory seminar, which generally should be completed in the first semester of the program.
2. The body of coursework itself.
3. A final capstone seminar, taken during the last semester.

A written thesis is not required, but individuals who wish to complete a thesis project may apply three credit hours toward their degree requirements. An individual who works well independently and who has a particular interest that lends itself to detailed research is especially encouraged to consider the thesis option. With the thesis option, the participant will select a faculty adviser other than the director of the program, who will direct the plan of study and research.

Program participants begin by enrolling in A&S 5509: Critical Choices: Methods of Inquiry into the Liberal Arts. On completion of this required three hour introductory seminar, which is described below, participants earn 30 credit hours based on an individual study plan. At the conclusion of the program, individuals enroll in a required three hour capstone seminar, A&S 5520: Critical Choices: Final Research Project and Capstone Seminar, described later.

A&S 5509 Critical Choices: Methods of Inquiry into the Liberal Arts (3 hours)
Offered each fall semester, the goals of the seminar are:

1. Refresh the research skills of adults who may be returning to formal classes for the first time in many years.
2. Provide an introduction to a vast array of research resources.
3. Refine writing skills.
4. Help each student define his or her area of focus within the program.

Sessions introduce participants to the use of the Miller Nichols Library on the main UMKC campus. The seminar also studies the different methods and research issues addressed by the humanities, sciences, and social sciences. The seminar also provides opportunity for each student to define an individual research question as a unifying theme in the selection of classes throughout his or her matriculation and as a final project to be investigated in the capstone seminar of the program, A&S 5520.

Individual Study Plans (30 hours)
Individuals develop their own plans of study in consultation with a graduate adviser designated by the program director. Two courses (6 hours) may be taken from another school at the university outside of The College of Arts and Sciences. No more than 12 hours at the 400 level (or 300 level when permitted by the department) can be applied to the plan of study.

Students are strongly encouraged to pursue a graduate certificate or focus in one of the following areas as part of the overall MALS degree.

- Bioethics (graduate certificate)
- Black Studies (informal focus area)
Program Description

The Master of Arts in Liberal Studies (MALS) degree program enables individuals to pursue interdisciplinary studies at the graduate level. Courses provide participants the opportunity to extend the best experiences of baccalaureate liberal education to the graduate level.

Students admitted to the program will be encouraged to select one of the graduate certificate programs or focus areas listed below and will plan programs of study with the cooperation of the assigned adviser. Alternatively, students with a strong interest in a different interdisciplinary area of study within the College of Arts and Sciences may submit a statement indicating interest in designing an individualized plan of study. Such a statement should indicate the proposed area of study and a list of courses offered in the College of Arts and Sciences that would contribute to the area of study.

The end result of each participant's matriculation should be a challenging experience that samples the richness of literature, the fine arts, history and those principles of the social and natural sciences that affect our lives.

Students admitted to the program will be encouraged to select one of the graduate certificate programs or focus areas listed below and will plan programs of study with the cooperation of the assigned adviser.

- Bioethics (graduate certificate)
- Black Studies (informal focus area)
- Film and Media Studies (informal focus area)
- Gerontology (graduate certificate)
- Medieval and Early Modern Studies (informal focus area)
- Teaching of Writing (graduate certificate)
- Women's and Gender Studies (informal focus area)
Student Learning Outcomes

1. Students will be able to identify and articulate scholarly problems and questions based on evidence and approaches from more than one disciplinary area at an advanced level.

2. Students will be able to gather and organize the primary source materials and raw data needed to answer these questions at an advanced level.

3. Students will be able to analyze relevant primary source materials and raw data to create a coherent answer to a scholarly problem or question at an advanced level.

4. Students will be able to critically appraise scholarly conversations in multiple fields, create a coherent interpretation, and take a critical position in these debates.

5. Students will be able to effectively communicate, at an advanced level, the results of their work via either expository prose or a creative work to an audience that does not specialize in their area of study or share their disciplinary perspective.

Relationship of the MALS to Interdisciplinary Doctoral Degrees

The College of Arts and Sciences has a strong tradition of interdisciplinary studies at both the baccalaureate and doctoral levels.

For the bachelor of arts and bachelor of liberal arts degrees, the College's integrated studies in the humanities curriculum (more commonly known as "cluster courses") and the Program for Adult College Education (PACE) are two programs that consist almost entirely of interdisciplinary coursework. At the advanced level of doctoral work, most of the departments in the College participate in the campus Interdisciplinary Ph.D. program, which requires studies in at least two fields.

The M.A. in Liberal Studies degree continues the tradition of interdisciplinary work in the college at the intermediate level between baccalaureate and doctoral work. In a few cases, students completing this degree may find the transition to doctoral work as the appropriate next step. However, students should recognize that the degree is not designed to provide students in the program with specific subject skills usually associated with targeted career objectives in traditional research areas.

Students interested in coordinating their M.A. in Liberal Studies coursework with future doctoral work at UMKC are strongly encouraged to make this intent known at the outset of their work. Without initial planning conducted with a committee of doctoral faculty, a student's master's coursework may not be appropriate to later doctoral studies.
Mathematics and Statistics
Department of Mathematics and Statistics
Haag Hall, Room 206
5120 Rockhill Road
(816) 235-1641
math@umkc.edu
http://cas.umkc.edu/math

Mailing Address
University of Missouri-Kansas City
Department of Mathematics and Statistics
HH 206
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Jie Chen

Emeriti Faculty:

Professors:
Jie Chen, Kamel Rekab, Noah H. Rhee

Associate Professors:
Yong Zeng, Eric J. Hall, Hristo D. Voulov, Liana M. Sega

Associate Teaching Professor:
Richard Delaware

Assistant Professors:
Thomas Fisher

Lecturers:
Naeem Ahmad, Swati DebRoy, Stephanie Van Rhein

Department Description

Undergraduate Programs

- Bachelor of Arts/Bachelor of Science in Mathematics
  - Student Learning Outcomes
  - Program Requirements
- Minor in Mathematics
- Teacher Certification in Mathematics

Mathematics (MATH) Courses
Statistics (STAT) Courses
Graduate Programs

Master of Science/Master of Arts: Mathematics and Statistics
- Student Learning Outcomes
- Program Requirements

Interdisciplinary Ph.D. in Mathematics

Mathematics (MATH) Courses
Statistics (STAT) Courses

Department Description
The Department of Mathematics and Statistics offers coursework leading to the bachelor of arts and bachelor of science degrees in mathematics. The graduate degrees available are the master of science degree, with concentrations in either mathematics or statistics, and the department participates in the UMKC School of Graduate Studies Interdisciplinary Ph.D. program. Qualified students can select mathematics as the coordinating unit or a co-discipline when applying for admission or preparing their plans of study. See the School of Graduate Studies section in the Graduate Catalog for more information about the Ph.D. program.

These programs are designed to develop the student's own knowledge of mathematics or statistics, and to provide the tools and understanding necessary for the study of other scientific and quantitative fields. The Department of Mathematics and Statistics has an institutional membership in the American Mathematical Society.

Advising System
Advising is on an individual basis with senior mathematics faculty members. Appointments for advising may be made by contacting the department, the undergraduate adviser, or the principal graduate adviser.

Library Resources
In addition to the Miller Nichols Library, the department has full access to the holdings and services of the Linda Hall Library of Science and Technology, a privately endowed institution of international prominence. The Linda Hall Library subscribes to more than 700 mathematics journals and maintains a large and growing collection of mathematics books.

Teacher Certification in Mathematics
Certification as a middle school (grades 5-9) or secondary school (grades 9-12) Mathematics teacher in either Kansas or Missouri requires that a student complete specific requirements both in Mathematics and in the School of Education. A separate application for teacher education is required. For further information, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

Interdisciplinary Ph.D. in Mathematics
UMKC offers an Interdisciplinary Ph.D. program. Students desiring to study at the doctoral level in mathematics must apply to the School of Graduate Studies. Detailed information on the general and discipline-specific requirements appears in the School of Graduate Studies section of this catalog. For more details visit the department Web site (http://cas.umkc.edu/math).
**Master of Science: Mathematics**

Students graduating with an M.A. or M.S. degree are expected to:

- Have a broad understanding of several branches of mathematics and how they are related. Be able to read and/or listen to documents and discussions having mathematical content, with an appropriate level of understanding, and exhibit a high level of mathematical literacy.

- Be able to clearly articulate mathematical information accurately and effectively, using a form, structure and style that suits the purpose, including written and face-to-face presentation.

- Be able to independently acquire further mathematical knowledge without guidance.

- Be prepared for entry into professional schools, doctoral programs, or the job market.

The master's program gives the student broad training in basic higher-level mathematics or statistics. A concentration is available in either mathematics or statistics.

At least **30 credit hours** of approved coursework in the department are required. At least 18 credit hours (of the 30 minimum total credits) must be at the 5500 level in the department. Courses numbered below 400 do not carry graduate credit for mathematics and statistics graduate students. Courses numbered at the 400 level will NOT be credited to the master's degree if they were previously taken from UMKC or are equivalent (content wise) to courses previously taken from any other accredited colleges/universities for the undergraduate degree. Independent Reading courses (490 or 5590) are not counted toward the degree unless approved by the department Graduate Program Coordinator prior to taking the course. (Normally, more than 3 credit hours of Independent Reading will not count toward the master's degree, but in any case the department Graduate Program Committee will make the decision based on the student's petition, which should clearly explain the need of counting such a course toward the master's degree.)

In addition to the minimum 30 credit hours of coursework, master's degree seeking students are required to attend five Departmental Graduate Seminars per semester.

Master's degree candidates are required to submit a **Master Plan of Study Form** prior to the completion of 15 credit hours of course work.

In the last semester before graduation, the student will make a presentation on a Master's research project (based on either small scale original research or a research paper chosen from those published in relevant research journals). The presentation will be given in one of the department series of talks to an audience of faculty, students, and outside guests. This talk will be assessed by the Project Advisory Committee.

All master's degree candidates must take **six core courses** (all at the 5500 level) in the selected concentration area. For concentration in Mathematics, those courses are MATH 5509, MATH 5513, MATH 5532, MATH 5510, MATH 5521, and MATH 5545. For concentration in Statistics, those courses are STAT 5501, STAT 5537, STAT 5551, STAT 5547, STAT 5565, and STAT 5572. Students can choose the other four courses from the 400 or 5500 level courses offered by the department. For more details about the courses offered please refer to the departmental Web site (http://cas.umkc.edu/math).
Bachelor of Arts or Bachelor of Science in Mathematics
The undergraduate curriculum in the Department of Mathematics and Statistics is comprised of courses in the broad areas of algebra, analysis, mathematics for teachers, applied mathematics and statistics.

Degree Requirements
For a bachelor's degree in mathematics, students must satisfy the general requirements of The College of Arts and Sciences and complete the program described below.

Departmental requirements for a Bachelor of Science degree:
1. MATH 210, MATH 220 and MATH 250
2. a minimum of 21 hours of coursework in mathematics or statistics at the 300 level or above, including the following classes: MATH 300, MATH 402, MATH 410 or MATH 420, MATH 345 or MATH 406 or MATH 430 or STAT 436
3. At least four of the courses at the 300 level or above must be completed in the Department of Mathematics and Statistics at UMKC.

Departmental requirements for a Bachelor of Arts degree:
1. MATH 210, MATH 220 and MATH 250
2. a minimum of 21 hours of coursework in mathematics or statistics at the 300 level or above, including the following classes: MATH 300, MATH 402, MATH 410 or MATH 420
3. At least four of the courses at the 300 level or above must be completed in the Department of Mathematics and Statistics at UMKC.

Suggested Plan of Study
Because of the diversity of acceptable programs available, a four-year plan of study is not suggested. Students are cautioned, however, that certain mathematics courses must be taken in the appropriate sequence. Students should consult with a department mathematics adviser to plan a program of study.

Bachelor of Arts or Bachelor of Science in Mathematics
Students graduating with a B.A. or B.S. degree in Mathematics and Statistics are expected to:

Be able to read, write, understand mathematical proofs, and construct mathematical proofs as appropriate.

Be able to reason with and apply mathematical concepts, principles and methods; analyze and evaluate problems (both theoretical and practical) and plan strategies for their solution.

Be able to work collaboratively with others on projects requiring mathematical knowledge and input, to function effectively in a professional workplace related to mathematics, or in a graduate program.

Minor in Mathematics
A minor in mathematics may be obtained by completing a total of 20 hours of mathematics courses at the 200-level or above, including MATH 210 and MATH 220, and three courses at the 300-level or above in the department.
Military Science

5322 Rockhill Road
(816) 235-1152
armyrotc@umkc.edu

Mailing Address
University of Missouri-Kansas City
Department of Military Science
5100 Rockhill Road
Kansas City, MO 64110-2499


- Program Description
- Two-Year Instruction
- Financial Assistance
- Department of Military Science Curriculum
- Military Science Courses

Program Description
The Army Reserve Officers Training Corps provides college-trained officers for the U.S. Army and Army Reserve. With the exception of a five-week paid summer camp, all instruction is presented on campus. Various field training exercises are conducted to further enrich students' leadership skills.

A commission as a second lieutenant in the U.S. Army, Army Reserve or National Guard is awarded to individuals who have successfully completed the ROTC program and obtained a baccalaureate degree from UMKC. Currently, college graduates who are commissioned through ROTC are placed on either active duty, the reserves or National Guard duty, depending on their desires and on the needs of the service at the time of graduation. The length and type of obligation will depend on the scholarship awarded.

Two-Year Instruction
ROTC instruction usually is presented over the four years of traditional full-time study. This also allows commissioning at the same time graduation requirements are met. However, a two-year program is available for students who were unable to take the first two years of instruction and want to earn a commission.

Financial Assistance
Financial assistance is available through the U.S. Army Scholarship Program. Two-, three- and four-year scholarships are awarded each year to selected students who are enrolled or will enroll in the Army ROTC program. The scholarships provide payment of tuition, fees, textbooks and a monthly tax-free payment of $200 for the duration of the scholarship, not to exceed 10 months for each year of the scholarship. These scholarships are available for both undergraduate and graduate students. Non-
scholarship contracted cadets in the advanced portion of ROTC receive $200 each month, not to exceed 10 months per year for two years. Students are furnished free textbooks for military science classes. The Simultaneous Membership Program (SMP) allows students to be a member of a National Guard or Reserve unit while enrolled in ROTC. Advanced course SMP students receive E5 pay, plus $200 per month from ROTC, plus any Active Duty GI Bill entitlement.

Department of Military Science Curriculum
All students are eligible to take Military Science 100- and 200-level courses without any military obligation. However, Military Science 300- and 400-level courses are reserved for students who have a signed contract with ROTC to become an officer upon graduation.
**PACE/Program for Adult College Education**
Scofield Hall, Room 104
711 E. 51st Street
(816) 235-1588
Fax: (816) 235-5760
http://cas.umkc.edu/pace

**Mailing Address**
University of Missouri-Kansas City
Program for Adult College Education
SH 104
5100 Rockhill Road
Kansas City, MO 64110-2499

Director:
Reginald Bassa

- Program Description

- PACE Courses
  - Art (ART)
  - Arts and Sciences (A&S)
  - Chemistry (CHEM)
  - Communication and Information Technology (CIT)
  - Communication Studies (COMM-ST)
  - Criminal Justice and Criminology (CJC)
  - Economics (ECON)
  - English (ENGLISH)
  - History (HISTORY)
  - Humanities (HM)
  - Integrated Studies (INTGR)
  - Interdisciplinary Studies (INT-DISC)
  - Natural Science (NAT-SCI)
  - Philosophy (PHILOS)
  - Physical Science (PHY-SCI)
  - Political Science (POL-SCI)
  - Psychology (PSYCH)
  - Social Science (SOC-SCI)
  - Sociology (SOCIOL)

**Program Description**
The Program for Adult College Education (PACE) provides an alternative for students who have difficulty pursuing a bachelor's degree due to employment, family responsibilities or other obligations. PACE provides a nontraditional method for earning a bachelor's degree through courses in a special weeknight, weekend and independent study format. PACE courses are normally presented in 12-hour blocks, arranged by theme or issue. There are also numerous Internet, web-assisted and second eight week courses.
Bachelor of Liberal Arts Degree (B.L.A.)
The B.L.A. with or without a minor/concentration is the most popular degree offered through PACE. This degree program allows enhanced flexibility in selection of academic areas of study for students whose aspirations are not served by a traditional major. Research has shown that individuals with the breadth of knowledge and skills provided by a liberal arts education are in demand by employers. The B.L.A. provides:

- Broad knowledge and understanding of the natural sciences, social sciences, arts and humanities.
- Maximum flexibility in course selection.
- Critical thinking and problem-solving abilities.
- Personal satisfaction and self-esteem.
- Multicultural issues awareness.
- Ability to adapt and work as a team.
- Increased awareness of values and ethical questions.
- Interpersonal skills.
- Written and oral communication skills.

Bachelor of Liberal Arts Degree (B.L.A.) with a Minor/Concentration Area
The B.L.A. with a minor/concentration area is designed to allow all the advantages of a liberal arts education while providing an indication of a student's special area of interest. Minors earned in conjunction with the B.L.A. are reflected on official transcripts. However, typically it is necessary for students pursuing a minor to take a required course outside of the PACE curriculum. Concentrations are informal academic designations and are not reflected on official transcripts. However, successful completion of concentration requirements is recognized by a certificate. Requirements are typically established jointly between PACE and the respective academic department within the College of Arts and Sciences. Typically, 18 credit hours are required in related interdisciplinary fields to qualify for a concentration. Some concentrations may require the combination of PACE and regular departmental coursework. The following concentration areas can be primarily obtained through PACE course offerings:

- Black Studies
- Chemistry
- Commercial Economics
- Communication Studies
- Computer Media & Technology
- Criminal Justice and Criminology
- Disability Studies
- Economics
- English
- Environmental Studies
- Family Studies
- History
- Political Science
- Psychology
- Sociology
- Spanish
- Visual Technology and Art Design

Bachelor of Arts or Bachelor of Science Majors and Minors in Conjunction with PACE
Students can meet B.A./B.S. general degree requirements through the PACE program and, in conjunction with designated disciplines, pursue a major or minor. Degrees associated with an academic unit's evening
division are recommended for this process. Students should refer to the associated departmental requirements in the UMKC undergraduate catalog and consult a Department Advisor and a PACE Advisor.

**Entry into Graduate/Professional Degree Programs and PACE**
The PACE Program provides to students the ability to achieve rigorous academic preparation for graduate and professional degree programs. The B.L.A. is recognized as an appropriate degree for a number of graduate/professional programs at UMKC and elsewhere (e.g., Master of Arts in Liberal Studies, Accounting, Law, Education, Public Administration, Business Administration, Medicine and Health degrees). Many PACE students continue their studies in graduate degree programs.

**Entry into Certificate Programs and PACE**
PACE also participates in certificate programs such as those offered in disability studies, gerontology, substance abuse and in the degree completion program for individuals who have satisfactorily completed the Kansas City, Mo. Regional Police Academy training. UMKC grants 30 hours of elective credit toward the B.A. in criminal justice and criminology or the bachelor of liberal arts degree for completion of the academy.

**PACE Academic Advising**
The PACE program takes a highly personalized approach to the academic needs of nontraditional students. Students will work with an academic advisor who will assist them from admissions, through the academic process, to graduation. Students can consult the Student Services Coordinator from the PACE Office, for issues that impact their academic goals. Students wishing to combine PACE coursework with other academic programs and degrees should consult an academic adviser in the College of Arts and Sciences Advising Office or the PACE Student Services Coordinator.
Philosophy
Department of Philosophy
Cockefair Hall, Room 222
5121 Rockhill Road
(816) 235-1331
Fax: (816) 235-2819
philosophy@umkc.edu
http://cas.umkc.edu/philosophy

Mailing Address
University of Missouri-Kansas City
Department of Philosophy
CH 222
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Clancy Martin

Professors Emeriti: Hans W. Uffelmann (School of Medicine), Edward Walter

Professors:
Bruce Bubacz (Curators' Distinguished Teaching, School of Law), Henry R. Frankel, George D. Gale Jr.,
Clancy Martin, Wayne Vaught (School of Medicine)

Associate Professor:
James Sheppard (architecture, urban planning and design)

Assistant Professor: Andrew Graham, Susanna Rinard, Dana Tulodziecki,

Undergraduate Adviser: Bruce Bubacz

- Department Description
- Career Implications of the Degree
- Departmental Activities
  - Advising System
  - Special Services
  - Scholarly Presentations

Undergraduate Programs

- Bachelor of Arts: Philosophy
  - Student Learning Outcomes
  - Program Requirements
- Minor in Philosophy
- Minor in Bioethics and Medical Humanities

Undergraduate Philosophy (PHILO) Courses
Graduate Philosophy (PHILOS) Courses
Department Description
The Department of Philosophy offers a program of study leading to the bachelor of arts degree in philosophy. Courses are offered that develop critical and analytical skills, acquaint students with the history of philosophy and apply philosophy to issues of living. Students who major in other disciplines can gain special insight into their majors with a philosophy minor. There is a focused minor on bioethics, targeted at students interested in the medical and health care professions.

Career Implications of the Degree
The dynamism of American economic life guarantees that change will be a constant, especially in employment – most people will change careers several times during their working lives. How can you prepare yourself for the inevitable challenges of your career? The most important traits that will serve you well in the Twenty First century are flexibility and discipline, the capacity to quickly assess and understand new environments, to recognize opportunities and the ability to deploy tools that will guarantee success. The study of philosophy will prepare you for the challenges of this evolving world. Studying philosophy provides you with the ability to read complex materials with care and comprehension, to write with clarity and economy and to express your ideas forcefully and succinctly. If you are interested in honing the skills that will allow you to succeed in any endeavor requiring focused thought, if you recognize that the best way to prepare for the challenging world of our knowledge-based economy is to hone your mind and sharpen your intellect, then philosophy is the major for you.

Advising System
Although all faculty members of the department are available for student advising, the department has an undergraduate adviser to whom questions about the philosophy program should be directed.

Special Services
The Philosophy Department is committed to having a strong student community, and has a very active Honors Society, Phi Sigma Tau. Events include everything from inviting guest speakers, movie nights, reading/discussion groups (both with and without faculty members) to socializing, and are open to anyone interested in philosophy. Students are highly encouraged to be active participants in both Phi Sigma Tau and departmental life in general.

Scholarly Presentations
Many visiting philosophers present scholarly papers to the Philosophy Department during the academic year. In addition, organizations such as the Kansas City Area Philosophical Association, the Central States Philosophical Association and other professional societies occasionally meet in Kansas City. Students are cordially invited to attend these activities.

Bachelor of Arts: Philosophy
Bachelor of Arts in Philosophy
Students graduating with a baccalaureate degree in philosophy will:

- Have an understanding of the central figures and themes in the history of philosophy.
- Possess the critical reasoning skills necessary to effectively analyze and critique abstract concepts and arguments.
- Be able to develop and defend philosophical arguments, both orally and in writing.
- Be able to apply critical reasoning skills in a wide range of career settings.
Degree Requirements
Philosophy majors are required to complete 30 credit hours of philosophy coursework. Required courses include:

- PHILOS 210 Foundations of Philosophy (3)
- PHILOS 222 Foundations of Logic and Scientific Method (3)
- PHILOS 310WI Ancient Philosophy (3)
- PHILOS 320WI Descartes to Hume (3)
- PHILOS 321 Ethics (3)

No more than nine credit hours of the 30 required hours may be at the 100- or 200-level. To graduate with a major in philosophy, students must pass all courses included in the 30 credit hours required for the degree with a grade of C or higher. This requirement also applies to transfer courses.

Minor in Philosophy
Philosophy minors are required to complete a total of 18 credit hours, including PHILOS 210 or PHILOS 222 (three hours), PHILOS 310WI and PHILOS 320WI (six hours), and any 300- or 400-level philosophy courses (nine hours). Students must achieve a grade of C or better in a course for it to count toward the minor. Students can work with the departmental adviser to tailor focused minors that coordinate with their major.

Minor Bioethics and Medical Humanities
Students wishing to complete the interdisciplinary minor in Bioethics and Medical Humanities must complete 18 hours of coursework. Students will be required to take PHILOS 221 or PHILOS 321, PHILOS 360, and one course in the History of Medicine. (e.g. HISTORY 412B, HISTORY 428A, or HISTORY 428B). They must also complete 9 additional elective hours of 300/400 level courses in bioethics and medical humanities from the approved course list or as approved by the program director. Students must receive a C or better in all coursework applied toward the minor. Students can combine a minor in Bioethics and Medical Humanities in conjunction with any other major or as part of the BLA.
Physics and Astronomy
Department of Physics and Astronomy
5110 Rockhill Road, Room 257
Robert H. Flarsheim Science and Technology Hall
(816) 235-1604
Fax: (816) 235-5221
hinkkf@umkc.edu
http://cas.umkc.edu/physics

Mailing Address
University of Missouri-Kansas City
Department of Physics and Astronomy
RHFH 257
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Michael B. Kruger

Undergraduate Adviser:
Fred Leibsle

Graduate Adviser:
Anthony Caruso

Curators' Professors:
Wai-Yim Ching, Michael B. Kruger (chair)

Professors:
Jerzy M. Wrobel, Da-Ming Zhu

Associate Professors:
Anthony N. Caruso, Fred M. Leibsle, Elizabeth P. Stoddard

Assistant Professors:
Mark Brodwin, Daniel H. McIntosh, Paul M. Rulis

Lecturers: Robert C. Riggs

Professors Emeriti:
Paul J. Bryant, Richard D. Murphy, Marvin R. Querry (Curators' Professor), George A. Russell (President Emeritus, University of Missouri), John R. Urani

Associate Professors Emeriti:
James R. Beacham, Richard C. Waring

- Department Description
- Undergraduate Admissions
- Advising
- Undergraduate Programs
Department Description
The Department of Physics and Astronomy offers programs of study leading to the bachelor of arts, bachelor of science and, with the School of Computing and Engineering, offers a 5 year course of study that results in a bachelor of science of Physics and a bachelor of science in Electrical & Computer Engineering, as well as minors in Physics and Astronomy. The Department of Physics and Astronomy also offers a master of science degree, and participates in UMKC's Interdisciplinary Ph.D. program.

To learn more about the Department of Physics and Astronomy, please click here.

Undergraduate Admissions
There are no special prerequisites for beginning either the bachelor of arts or the bachelor of science program. High-school physics and a good working knowledge of algebra and arithmetic are desirable for entering the bachelor of science program. However, any deficiencies may be overcome by taking the appropriate coursework. In order to ensure that the appropriate courses are taken, students are encouraged to consult with the undergraduate advisor (Professor Fred Leibsle, leibslef@umkc.edu) before beginning the major.

Career Implications of Bachelor’s Degrees
The bachelor’s degree is recommended for students interested in seeking employment in industrial, government and private organizations that require a strong scientific background.

Physics is an ideal discipline for an undergraduate degree, because students carry over the reasoning skills and problem-solving strategies developed by physics to virtually every field of endeavor. There are job opportunities in physics for holders of degrees at all levels. With a bachelors degree, the graduate is more likely to:

- Teach science in high school rather than in a college or university.
• Engage in development or applied research rather than in basic research.
• Work in an industrial or government laboratory rather than in a fundamental research laboratory.
• Work in many other areas that use the rigorous training and problem-solving skills of a physics major.

Graduates with physics degrees who enter fields other than science and technology generally find that the rigorous training they receive in a physics program helps their career advancement.

**Teacher Certification in Physics**
Certification as a middle school (grades 5-9) or secondary (grades 9-12) Physics teacher in either Kansas or Missouri requires that a student complete specific requirements in Biology, Chemistry, Environmental Science, Geology, Physics and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

**Graduate Programs**
The Department of Physics and Astronomy offers a master of science degree with thesis and non-thesis options. The Department of Physics is an academic discipline eligible for full participation in UMKC’s Interdisciplinary Ph.D. program. Qualified students can select physics as their coordinating unit or co-discipline when applying for admission or preparing their Ph.D. plan of study. (See the School of Graduate Studies section of this catalog for details about the Interdisciplinary Ph.D. program.)

For information about our undergraduate program please click here.

**Interdisciplinary Ph.D. Program Regulations**
The Department of Physics and Astronomy is a full participant in the Interdisciplinary Ph.D. Program. The doctoral studies committee of the department has the primary responsibility for administering the program within the department. The committee consists of all physics doctoral faculty members with an elected committee chairperson.

See the School of Graduate Studies section in this catalog and the departmental graduate brochure for general and discipline-specific regulations for Interdisciplinary Ph.D. study with physics as a coordinating unit discipline or co-discipline.

**Master of Science: Physics**
Students graduating with an M.S. in physics will:
• Have an advanced knowledge of the basic areas of physics.
• Be able to integrate their knowledge with critical thinking skills in order to become problem solvers.
• Be able to clearly articulate scientific information, both orally and in writing.
• Be able to effectively use the scientific literature.

Students graduating with an M.S. in physics will be prepared for entry into professional schools, graduate programs or the job market.

The Department of Physics and Astronomy offers a master of science degree with thesis and non-thesis options. The Department of Physics is an academic discipline eligible for full participation in UMKC’s Interdisciplinary Ph.D. program. Qualified students can select physics as their coordinating unit or co-discipline when applying for admission or preparing their Ph.D. plan of study. (See the School of Graduate Studies section of this catalog for details about the Interdisciplinary Ph.D. program.)
**Graduate Admissions**
To be admitted to the graduate program, a student must meet the general admission requirements for the School of Graduate Studies and have undergraduate preparation in physics. An undergraduate major in physics is not required, and deficiencies in completed coursework may be overcome by taking additional undergraduate-level courses for graduate credit. Applicants are encouraged to take both the Graduate Record Examination (GRE) aptitude test and physics test. International students must take the Test of English as a Foreign Language (TOEFL). Admission will be based on academic record and other information such as letters of reference, GRE score and personal interview. See the School of Graduate Studies section in this catalog for requirements for admission to the Interdisciplinary Ph.D. program.

**Career Implications of the Master's Degree**
The master's degree programs in physics are intended to serve the following groups:

- Those who wish to obtain a master of science degree but do not expect to go further in graduate work.
- Those who intend to work toward a Ph.D. in physics after obtaining the M.S. degree.
- Those who wish to take graduate courses in physics as part of a program in some other discipline or for educational or professional reasons.
- Those who wish to obtain an Interdisciplinary Ph.D. degree from UMKC in two or more academic disciplines, one of which is physics.

The career implications for students with an M.S. degree in physics and seeking employment are similar to those with B.S. degrees, but they will have a more advanced standing and experience in science department activities.

A student who is entering the graduate program with the objective of earning a master of science degree will select or be assigned an adviser. This assignment should be made during the first semester, if possible. Together, the student and the adviser will work out the complete program of study for the master of science degree. Students entering UMKC's Interdisciplinary Ph.D. program, and choosing physics as one of their academic disciplines, must follow the academic regulations of the School of Graduate Studies as set forth in the School of Graduate Studies section in this catalog. All graduate students in physics who have completed more than 6 graduate credit hours must take a departmental examination offered in January.

**Scholarships, Fellowships and Assistantships**
Financial support is available through fellowships, teaching assistantships, research assistantships or hourly student wages. Students wishing to be considered for an assistantship must so specify in their letters and application forms.

**Description of the Program**
The master of science degree may be earned by fulfilling the requirements for the master of science with thesis or the master of science without thesis. A full-time graduate student seeking a master of science degree will normally be expected to take the thesis option. The without-thesis option is mainly designed for part-time students who already have career employment.
Requirements for the M.S. Degree With Thesis
1. 30 graduate credit hours with the following constraints:
   • At least fifteen (15) hours from M.S. Core Courses;
   • At least fifteen (15) hours of M.S. Elective Courses with no more than six (6) hours from Physics 5599;
2. A comprehensive written examination, passed at the "passing", "qualifying" or "comprehensive" level, covering all basic areas of undergraduate and graduate physics;
3. A satisfactory* thesis, written and defended;
4. General requirements set by the School of Graduate Studies.

Requirements for the M.S. Degree Without Thesis
1. 33 graduate credit hours with the following constraints:
   • At least fifteen (15) credit hours of core M.S. courses;
   • No more than twelve (12) credit hours of 400-level courses;
   • At least six (6) credit hours of 500-level M.S. Elective courses.
2. A comprehensive written examination, passed at the "passing", "qualifying" or "comprehensive" level, covering all basic areas of undergraduate and graduate physics.

All graduate students must maintain a grade-point average of 3.0 (A = 4.0). A student who chooses the thesis option must maintain satisfactory progress on a research project. There are no language requirements for the M.S. degree.

Graduate students should consult with the graduate adviser** prior to enrollment.

M.S. Core Courses
PHYSICS 5510: Theoretical Mechanics I
PHYSICS 5520: Electromagnetic Theory I
PHYSICS 5530: Quantum Mechanics I
PHYSICS 5540: Statistical Physics I
PHYSICS 5521: Electromagnetic Theory II
PHYSICS 5531: Quantum Mechanics II

M.S. Elective Courses
PHYSICS 5500: Methods Of Mathematical Physics I
PHYSICS 5501: Methods Of Mathematical Physics II
PHYSICS 5511: Theoretical Mechanics II
PHYSICS 5535: Optical Properties Of Matter
PHYSICS 5541: Statistical Physics II
PHYSICS 5550: Atomic And Molecular Structure
PHYSICS 5560: Nuclear Physics
PHYSICS 5570: Quantum Theory of Solids I
PHYSICS 5590: Topics In Physics
PHYSICS 5595L: Computer Interfacing Laboratory
PHYSICS 5599: Research And Thesis
PHYSICS 410: Thermal Physics
PHYSICS 420: Optics
PHYSICS 476LW: Advanced Lab
PHYSICS 450: Introduction To Solid State Physics
PHYSICS 460: Electricity And Magnetism I
PHYSICS 461: Electricity And Magnetism II
PHYSICS 472: Introduction To Quantum Mechanics

*Satisfactory is determined by the students committee
**Prof. A. Caruso, Flarsheim 250H, 816-235-2505, caruson@umkc.edu

Bachelor of Science: Physics

Students graduating with a baccalaureate degree in Physics will:

- Have a functional knowledge of the basic areas of physics.
- Be able to integrate their knowledge with critical thinking skills in order to become problem solvers.
- Be able to clearly articulate scientific information, both orally and in writing.
- Be able to effectively use the scientific literature.

Students graduating with a baccalaureate degree in Physics will be prepared for entry into professional schools, graduate programs or the job market.

The bachelor of science degree is recommended for students interested in seeking employment in industrial, governmental and private organizations that require a strong scientific background.

A basic knowledge of mathematics is necessary for the study of physics. The study of mathematics should begin in the freshman year.

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PHYSICS 410 3
PHYSICS 420 3
PHYSICS 460 and PHYSICS 461 6
PHYSICS 472 3
PHYSICS 476LW 3
Total 46

Suggested Plan of Study for B.S. in Physics

**Freshman Year** Hours
MATH 210-220 8
CHEM 211, 211L, 212R and 212LR 10
PHYSICS 240 5
Gen. Ed. Req. / Electives 7
Total 30

**Sophomore Year**
MATH 250 4
PHYSICS 250 5
PHYSICS 330 3
PHYSICS 385L 3
Gen. Ed. Req. / Electives 15
Total 30

**Junior Year**
PHYSICS 310 and 311 6
PHYSICS 350 3
PHYSICS 395L (fall of even years) or
PHYSICS 476LW (fall of odd years) 3
PHYSICS 420 (spring of even years) 3 or
PHYSICS 450 (spring of odd years)
PHYSICS 410
Gen. Ed. Req. / Electives 12
Total 30

**Senior Year**
PHYSICS 460 and 461 6
PHYSICS 472 3
PHYSICS 395L (fall of even years) or
PHYSICS 476LW (fall of odd years) 3
PHYSICS 420 (spring of even years) 3 or
PHYSICS 450 (spring of odd years)
Gen. Ed. Req. / Electives 15
Total 30

The above plan of study is given only as a model. Individual programs may vary as circumstances require.
B.A. Curriculum Requirements

Students graduating with a baccalaureate degree in Physics will:

- Have a functional knowledge of the basic areas of physics.
- Be able to integrate their knowledge with critical thinking skills in order to become problem solvers.
- Be able to clearly articulate scientific information, both orally and in writing.
- Be able to effectively use the scientific literature.

Students graduating with a baccalaureate degree in Physics will be prepared for entry into professional schools, graduate programs or the job market. The bachelors of arts degree offers greater flexibility than either the BS or the 3/2 Physics/Engineering program since it requires a minimum of 38 credit hours of physics, in contrast to 46 for the BS. The majority of students pursuing the bachelor of arts in physics do so in preparation for a teaching career.

The B.A. degree with a major in physics must include:
1. Physics for Science and Engineering (PHYSICS 240, PHYSICS 250), 10 credit hours; in special cases, General Physics (PHYSICS 210, PHYSICS 220), 8 credit hours;
2. Advanced Physics Laboratory (PHYSICS 385L, PHYSICS 395L), 6 credit hours; and
3. An additional 22 credit hours in physics courses numbered 300 or above.

In addition to the above requirements, any other requirements set by The College of Arts and Sciences must be satisfied.
**Astronomy Minor**  
The minor in Astronomy is designed for students desiring a general background in Astronomy. There are two tracks (Track One, Track Two) each comprising 18-20 credit hours of required Physics courses. It is highly recommended that students follow Track One, since the upper level courses will be very challenging without a solid foundation in calculus-based physics. Students must receive grades of C or better in each course.

Astronomy advising questions should be directed to Professor Mark Brodwin (brodwinm@umkc.edu) or Professor Daniel McIntosh (McIntoshDH@umkc.edu)

**Track One (recommended)**  
**Suggested plan of study**

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<th>Starting Fall of odd years:</th>
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<tr>
<td>Fall</td>
<td>Spring</td>
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<tr>
<td>Year 1  PHYSICS 240, MATH 210</td>
<td>PHYSICS 250, MATH 220</td>
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<tr>
<td>Year 2  PHYSICS 355 (Stellar Astrophys.)</td>
<td>PHYSICS 465 (Cosmology)</td>
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<tr>
<td>Year 3  PHYSICS 356 (Galaxies)</td>
<td>PHYSICS 353 (Practical Ast.)</td>
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<tr>
<td>Year 1  PHYSICS 240, MATH 210</td>
<td>PHYSICS 250, MATH 220</td>
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<td>Year 2  PHYSICS 356 (Galaxies)</td>
<td>PHYSICS 353 (Practical Ast.)</td>
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<tr>
<td>Year 3  PHYSICS 355 (Stellar Astrophys.)</td>
<td>PHYSICS 465 (Cosmology)</td>
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Note: Only 3 of the 300- and 400-level courses in years 2 and 3 are required.

**Track Two (approval required):**  
**Suggested plan of study**

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<tr>
<td>Fall</td>
<td>Spring</td>
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<tr>
<td>Year 1  PHYSICS 210, MATH 120</td>
<td>PHYSICS 220</td>
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<tr>
<td>Year 2  PHYSICS 350 (Modern Physics)</td>
<td>PHYSICS 153L (Intro Astro Lab)</td>
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<tr>
<td>Year 3  PHYSICS 356 (Galaxies)</td>
<td>PHYSICS 353 (Practical Astron.)</td>
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<tr>
<td>Fall</td>
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<tr>
<td>Year 2  PHYSICS 210, MATH 120</td>
<td>PHYSICS 220</td>
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<tr>
<td>Year 3  PHYSICS 350 (Modern Physics)</td>
<td>PHYSICS 153L (Intro Astro Lab)</td>
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<tr>
<td>Year 4  PHYSICS 356 (Galaxies)</td>
<td>PHYSICS 353 (Practical Astron.)</td>
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Note: Only the 300- and 400-level courses are listed in years 2, 3 and 4. A 100-level course, if desired, can be taken any semester.
Physics Minor

Students majoring in other disciplines in the College of Arts and Sciences may elect to minor in physics.

A minor in physics will require a minimum of 18 credit hours in physics, including either PHYSICS 210 and PHYSICS 220 (8 credit hours) or PHYSICS 240 and PHYSICS 250 (10 credit hours), with a minimum of 9 credit hours from any 300- or 400-level physics courses.

3/2 Physics/Engineering

Course of study for the five year combined PHYSICS COMP-SCI/EE Degree

Year I
Fall Semester
MATH 210-Calculus I
COMM-ST 110-Fund. Effective Speaking and Listening
CHEM 211/CHEM 211L-General Chemistry I
Humanities Requirement
Total credits 15

Spring Semester
MATH 220-Calculus II
PHYSICS 240-Physics For Science And Engineering I
ECON 201-Economics I
CHEM 212/CHEM 212LR-General Chemistry II
Total credits 15

Year II
Fall Semester
MATH 230-Calculus III
PHYSICS 250-Physics For Science And Engineering II
E&C-ENGR 226-Logic Design
E&C-ENGR 227-Logic Design Lab
E&C-ENGR 216-Engineering Computation
Total Credits 16

Spring Semester
PHYSICS 350-Modern Physics
E&C-ENGR 341/PHYSICS 330 (Engineering math/Methods Of Theoretical Physics I)
ENGLISH 225-English Comp II
E&C-ENGR-Circuit theory
COMP-SCI 291-Discrete Structures II
Total credits 16

Year III
Fall Semester
PHYSICS 310-Classical Mechanics I
COMP-SCI 394R-Applied Probability
E&C-ENGR 378-Systems
E&C-ENGR 380-Signals and Systems
E&C-ENGR 381-Signals and Systems Lab
COMP-SCI 352-Data Structures and Algorithms
Total credits 16

Spring Semester
PHYSICS 311-Classical Mechanics II
PHYSICS 445LWI or PHYSICS 475LWI-Modern Physics Lab or Nuclear Physics Lab
E&C-ENGR 330-Electronic Circuits
E&C-ENGR 331-Electronic Circuits Lab
Literature Requirement
Distribution Requirement
Total credits 17
WEPT

Year IV
Fall Semester
E&C-ENGR 426-Microcomputer Architecture
E&C-ENGR 427-Microcomputer Architecture lab
Constitutional Requirement
PHYSICS 420-Optics
CIV-ENGR 311-WI Technical Entrepreneur
PHILOS 222-Foundations of Logic
Total Credits 17

Spring Semester
E&C-ENGR 302-Traveling Waves & Fields
E&C-ENGR 303-Traveling Waves & Fields Lab
E&C-ENGR 428R-Embedded Systems
E&C-ENGR 429-Embedded Systems Lab
Cluster course
Cultural Requirement
Total Credits 14

Year V
Fall Semester
COMP-SCI 431-Intro to Operating Systems
PHYSICS 410-Thermal Physics
E&C-ENGR 402WI-Senior Design I
E&C-ENGR Senior Area elective
E&C-ENGR Senior Area elective
Total credits 15

Spring Semester
E&C-ENGR 403WI-Senior Design Lab II
PHYSICS 472-Introduction to Quantum Mechanics
E&C-ENGR Senior Area elective
E&C-ENGR Senior Area elective
Fine Arts Requirement
Total credits 15

Total credits (158)
Notes
PHYSICS 450 (Solid State) and PHYSICS 460, PHYSICS 461 (Electricity and Magnetism I and II) may be taken as E&C-ENGR Senior Electives.

Advising

Advising System
Students who wish to major or minor in physics should seek the advice of the undergraduate adviser, Professor Fred Leibsle (leibslef@umkc.edu).

Students who wish to minor in astronomy should seek the advice of either Professor Mark Brodwin (brodwinm@umkc.edu) or Professor Dan McIntosh (mcintoshdh@umkc.edu).

Tutoring
Tutoring is available free in the department. Ask your instructor for the tutoring schedule.
**Political Science**

**Department of Political Science**
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5120 Rockhill Road
816) 235-1326
Fax: (816) 235-5594
pol-sc@umkc.edu
http://cas.umkc.edu/polisci

**Mailing Address**
University of Missouri-Kansas City
Department of Political Science
HH 213
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Mona Lyne

Emeriti Faculty:
David Atkinson, Robert E. Gamer, Ben L. Martin, Dale A. Neuman, G. Ross Stephens, Harris G. Mirkin

Curators' Professor:
Max J. Skidmore

Associate Professors:
Robert K. Evan
don (principal master's adviser), Mona Lyne (Chair)

Assistant Professors:
Elizabeth Miller, Greg Vonnahme Lecturers:David Brichoux, Robert Collins, Hootan Shambayati, David Sprick

- Department Description
- Undergraduate Admissions
- Career Implications of the Bachelor's Degree
- Department Activities
- Undergraduate Programs
  - Bachelor of Arts: Political Science
    - Student Learning Outcomes
    - Program Requirements
  - Minor in Political Science
- Undergraduate Courses in Political Science
Graduate Programs

- Master of Arts: Political Science
  - Student Learning Outcomes
  - Program Requirements

Interdisciplinary Ph.D.

Graduate Courses in Political Science

**Department Description**
The Department of Political Science offers courses leading to the degrees of Bachelor of Arts and Master of Arts.

The undergraduate major in Political Science is based on the principles of a liberal arts education, with attention devoted to philosophies, theories, institutions, processes and behavioral aspects of domestic and international politics.

**Undergraduate Admissions**
Students planning to major or minor in political science should declare their choice officially, and consult the Department Chair for program advice as early as possible.

**Bachelor of Arts: Political Science**
The Political Science major is a part of the Liberal Arts curriculum. We provide the tools and information to enable students to critically evaluate their political and social environment. Political Science students should obtain an understanding of the workings of government and politics, and develop skills in critical thinking, analysis and communication.

We have divided the major into required sub-areas (American government, comparative politics, international relations, and political theory and philosophy). We have one optional sub-area, Internships and Overseas Study. Courses in this area will normally count as electives in Political Science, but at the discretion of the Political Science Adviser, they can count towards one of the required sub-areas. Each required sub-area has learning objectives. We also have an overall objective for research and the communication of that research.

**Learning objective 1: Research and communication.**
All graduating students should be able to:
- Formulate a research question,
- Identify appropriate sources and bibliography,
- Write a well organized, well supported and thoughtful research paper using appropriate methods to answer their research question, and
- Make a short, interesting and clear oral report about their research.

**Learning Objective 2: American Government.**
Students in the American government sub-field should have a broad knowledge of major issues and debates in American politics, practice critical thought, be comfortable with analytic procedures, and be able to present and analyze arguments.
1. Majors will demonstrate a working knowledge of the American political system. This will include an understanding of the nation’s political institutions, political culture, and political ideologies.

2. Students will know understand and be able to discuss the public policy process, and possess a broad knowledge of the theory and methods used in the American politics subfield. Students can take a wide variety of courses in this area, and few students will possess all of the skills/information taught. But they should be familiar with most of these objectives:
   • Understand America’s political culture, including ideologies, philosophy, traditions and practices.
   • Understand the American political system and how it differs in structure and function from systems in other countries.
   • Be familiar with the major theories and principles fundamental to American governments and understand the dynamics of the operation of those governments.
   • Understand American Political institutions (including federalism) and the manner in which they function.
   • Understand the important Constitutional arguments used by the Court.
   • Understand, specifically, the process of policy formation.

Learning objectives 3: Comparative Politics
Political science majors should have command of the vocabulary and analytic tools for analyzing government systems and domestic politics around the world. They should have the ability to categorize states according to the dominant typologies in the field, for example as strong or weak, as based on civic or ethnic nationalism, or as democratic or non-democratic. Students should be able to analyze the basic characteristics of the regime and discuss the major institutions and processes, comparing and contrasting across systems. Finally, students should have knowledge of the key players and major public policy issues in selected countries, both Western and non-Western.

Learning Objective 4: International Relations.
Political Science majors should become familiar with (1) the history of international politics; (2) major theories, concepts, and analytical approaches in the study of international relations; and (3) contemporary global and regional issues. In studying international history, students examine practices in the Western world and their spread. Students should be able to discuss essential theories, concepts, and approaches including power, nationalism, levels of analysis, intellectual paradigms such as realism, and theories of international political economy. Examples of major issues are great power conflict, weapons of mass destruction; arms control and disarmament; internal warfare; terrorism; globalization; international law and organization; international economic relations; and international approaches to economic development.

Learning Objective 5: Political Philosophy and Theory.
Students who take a political theory class should become familiar with the types of analysis and normative structures that have been, or are being, used for political analysis. They should be familiar with the different theories, understand and be able to compare them, and be able to use these theories to understand current political issues.

The success of the program is measured by the large number of students who go to outstanding professional and graduate schools. Additionally, we use the Major Field Exam to evaluate our program. All students write a Senior Thesis in the Senior Seminar. That thesis is presented to the rest of the department and defended before them.
Degree Requirements
The department requirement for a major is 30 hours of political science. Only courses in which a grade of C- or better is earned will count towards the major. Additionally, a political science degree will be granted only to those who have achieved at least a 2.0 GPA in their approved departmental program.

Required Courses
Students must take the following political science courses:

- POL-SCI 210 American Government
- POL-SCI 220 Comparative Politics
- POL-SCI 490 Senior Seminar
  -or-
  - POL-SCI 492WI Senior Seminar (Capstone)

At least 24 hours of political science coursework must be at the 300- to 400-level, and at least 12 hours must be earned at UMKC. Students transferring from other institutions should check as soon as possible to determine which of their credits will transfer as 300- to 400-level political science courses.

POL-SCI 210 and POL-SCI 220 should be taken as early as possible. Because there are optional ways for students to meet the remainder of the requirements for the major, students should meet with the department's undergraduate adviser to develop a program of study that suits their educational goals.

Political science majors are required to take at least one 300-400 level course in the first four of the following five subfields. Three additional (elective) courses may be taken in any subfield. Courses taken in the last subfield (Study Abroad Programs and Internships) normally will only count as elective credit, but may be counted as a required subfield course with the permission of the department adviser. Meet with the department's undergraduate adviser for more information.

American National Politics

- POL-SCI 303 Political Behavior
- POL-SCI 308 Politics, Parties And Pressure Groups
- POL-SCI 309 Public Opinion And Voting Behavior
- POL-SCI 312 Mass Media And American Politics
- POL-SCI 313 Politics In The American States
- POL-SCI 314 Local Governments
- POL-SCI 315 Public Policy
- POL-SCI 318 Political Psychology
- POL-SCI 319 Campaigns And Elections
- POL-SCI 326 Racial & Ethnic Politics
- POL-SCI 328 State And Local Government
- POL-SCI 343 The Politics of Social Security
- POL-SCI 346 Introduction to the Trial Process
- POL-SCI 348 Constitutional Law: The Federal System
- POL-SCI 349 Constitutional Law: Civil Liberties
- POL-SCI 405 American Constitutional Thought
- POL-SCI 406 Presidential Politics
- POL-SCI 407 Congressional Politics
- POL-SCI 407P Politics Of Representation
- POL-SCI 408 Judicial Politics
- POL-SCI 409 Bureaucratic Politics
- POL-SCI 424 Urban Politics and Community Power Structures
- POL-SCI 429 Courts And Public Policy
- POL-SCI 438 Urban Politics

**Comparative Politics**
- POL-SCI 304 Politics Of The Developing Nations
- POL-SCI 317 Revolutionary Origins Of The Modern State
- POL-SCI 338 Religion and Politics
- POL-SCI 353 Chinese Politics
- POL-SCI 354 Politics In Russia
- POL-SCI 355 Politics In Eastern And Central Europe
- POL-SCI 357 European Politics
- POL-SCI 359 Latin American Politics
- POL-SCI 369 Politics Of The Middle East
- POL-SCI 425 Comparative Politics

**International Relations**
- POL-SCI 306 International Relations
- POL-SCI 307 The United Nations: Politics And Economics
- POL-SCI 327 Nationalism And Ethnic Conflict
- POL-SCI 332 American National Security
- POL-SCI 336 American Foreign Policy
- POL-SCI 361 Global Issues in a Changing World
- POL-SCI 362 Latin America and International Relations
- POL-SCI 418 International Security
- POL-SCI 432 National Security Policy
- POL-SCI 435P Politics Of The Environment
- POL-SCI 451 International Politics In Europe
- POL-SCI 452 Concepts in International Relations

**Political Theory**
- POL-SCI 301 Western Political Philosophy
- POL-SCI 341 The Theory Of Democracy
- POL-SCI 342 American Political Thought
- POL-SCI 344 Jurisprudence
- POL-SCI 345 The Politics Of Sex And Gender
- POL-SCI 403 Political Ideology
- POL-SCI 440 Contemporary Political Thought
- POL-SCI 442 American Political Thought
- POL-SCI 450WI Ethics and Government

**Study Abroad Programs and Internships**
- POL-SCI 491 Internship
- POL-SCI 493 Study Abroad
- Other courses specifically approved by the undergraduate adviser

Note: POL-SCI 497 and POL-SCI 498 will only satisfy subfield requirements when approved by the instructor and undergraduate adviser.
Minor in Political Science
A minor in political science requires the successful completion of 18 semester hours of coursework within the discipline. At least 12 credits must be at the 300- to 400-level and at least nine must be earned at UMKC. It is advisable for students to talk with their undergraduate advisor regarding course selection.

Master of Arts: Political Science
The Master of Arts degree in political science offers study of the major theories, concepts and practices of politics in the United States and throughout the world. The M.A. is designed to serve both as a terminal degree and as preparation for doctoral study at other institutions. In addition, students earning a graduate degree in the UMKC School of Education may take graduate courses in Political Science in fulfillment of their subject area.

The Master's program in political science is designed to give students a broad background in the field. Analytic, research and writing skills are emphasized.

To be admitted to the graduate program in political science, an applicant should have had some previous study in the social sciences. An undergraduate degree in political science is recommended but not required. The department normally requires applicants to have earned a 3.0 grade-point average in their last 60 credit hours of undergraduate coursework, as well as in their major field of study.

The application process is competitive. Satisfying minimum criteria does not guarantee admission to the graduate program; students are admitted according to their rank in the applicant pool and the adequacy of departmental resources. Applicants must submit:

1. A completed UMKC application for admission.
2. Official transcripts of all previous college work.
3. Scores from the Graduate Record Examination (General).
4. A letter of application to the principal master's adviser expressing personal plans and interest in graduate work in political science.
5. Two letters of recommendation from professors or others qualified to assess academic potential.

All application materials should be sent to the UMKC Office of Admissions for transmittal to the Department of Political Science for an admissions decision.

Applicants whose records do not meet the requirements of undergraduate academic performance, or whose application submissions are incomplete, may be admitted as non-regular graduate students, depending on individual circumstances. Only regular graduate students may apply for the M.A. degree. Admission under any circumstances is no guarantee of retention.

Graduate students are expected to maintain a high degree of academic excellence. After completion of nine credit hours of coursework in political science at UMKC, the academic performance and status of each student will be reviewed by the faculty and a departmental decision will be made as to retention of the student in the graduate program.

Students whose grade-point averages fall below 3.0 (B) for more than two semesters may be dropped from the program. A 3.0 grade-point average is required for graduation.

Temporary grades of "incomplete" will be granted only rarely by political science faculty, only in extraordinary circumstances beyond the control of the student, and only if there are reasonable expectations that the work can be completed. Except for thesis hours, all grades of incomplete will be automatically converted to F's after one year.
The faculty of the Department of Political Science views plagiarism and academic dishonesty as inexcusable. Any student found guilty of these will be dropped from the program.

Students also should consult the School of Graduate Studies section in this catalog for general academic regulations that apply to all graduate students at UMKC.

The Master of Arts degree in political science requires the successful completion of either of the following sets of requirements:

- **Non-Thesis Option** - 33 semester hours of approved coursework.
- **Thesis Option** - 24 semester hours of approved coursework and 6 hours of thesis (POL-SCI 5599: Research and Thesis). Students must gain permission to write a thesis. Permission to do so depends on the quality of the thesis proposal, the student's writing skills, and the ability of the Department to supervise the student in the subject area of the proposed thesis. An oral defense of the thesis is required. Those who anticipate further graduate work toward the doctorate are advised to write a thesis.

All M.A. candidates must successfully complete POL-SCI 5501. Seminar in American Government; POL-SCI 5530, Seminar in International Relations; and POL-SCI 5580, Seminar in Comparative Politics. With permission of the principal M.A. adviser, students may transfer six credit hours of graduate work from other institutions, and may count no more than six credit hours of pre-approved graduate coursework in other UMKC departments.

Candidates also may take up to nine credit hours of 300- or 400-level coursework in political science at UMKC and count them toward the M.A. degree. For a 300- or 400-level course to be accepted for graduate credit, a student must arrange with the instructor to do supplementary work (such as additional reading, writing, and contact hours) and earn at least a B in the course. In addition, the student must not have taken previously an equivalent course at UMKC or elsewhere. In either the 30-hour thesis option or the 33-hour non-thesis option, no more than six hours of readings, independent study or directed studies credit (other than thesis hours) may be counted toward the requirements for the M.A.

In all cases, students in the M.A. program must take at least 15 hours of graduate-level (5500-level) courses in political science at UMKC in fulfillment of their degree requirements. In addition, University of Missouri rules mandate that students in graduate programs must take at least 60% of their course work at the graduate level. Applied to the M.A. program in political science, this means that students taking the thesis option must complete at least 18 hours at the graduate level, and students in the non-thesis option must complete at least 21 graduate hours. Graduate courses taken at UMKC in political science and other programs, graduate transfer hours, and thesis hours all count toward fulfillment of this requirement.

Students should consult the principal master’s adviser in selecting approved courses to assure progress toward completion of the degree and to meet their needs and interests in graduate study.

**Interdisciplinary Ph.D.**

The Department of Political Science participates as a co-discipline in the Interdisciplinary Ph.D. program.

For further information contact the Department of Political Science, (816) 235-1326, or Robert K. Evanson, IPhD Coordinator, (816) 235-5217 or EvansonR@umkc.edu
Department Activities

Advising
Initially, students are assigned advisors from the faculty in the department based on last name. However, students who wish to choose a specific advisor from the department may do so by notifying the Chair. A faculty member other than the chair serves as principal graduate adviser.

Internships and Study Abroad
The department has an active internship program. Information on local, regional, national and international programs of interest to undergraduates in political science is posted on departmental bulletin boards and is available from faculty members. Credit is given for successful completion of internship programs approved by the department.

The university has a large study abroad program, and the department encourages students to participate in approved programs. Credit is given and scholarships are available for good students. We also cooperate in the InterFuture program that allows students to do research overseas.

Special Services
The department occasionally invites distinguished political scientists from other universities to visit UMKC to provide lectures for its students and to meet with them for questions and discussions. Additionally, when it is appropriate, public officials, civil servants, foreign officials and others active in public affairs speak to political science classes as part of the academic program.

Independent study in the form of tutorials is available in two courses: POL-SCI 497 and POL-SCI 498 (depending on student qualifications). In either case, without exception, the student must propose a topic for study, have the approval of the adviser and have the written consent of the instructor with whom the tutorial is to be taken before registration for the course. UMKC Honors Program participants may take any course in the department for honors credit by making special arrangements, involving extra work, with the instructor.

It is important for students to meet each other as well as take classes, and the department sponsors a monthly Lunch Bunch, an informal meeting in which students discuss current political problems and issues with other students and with professors in the department. Pizza and soda are served.

Honor Society
UMKC has an active chapter of Pi Sigma Alpha, the national political science honor society. Each year Pi Sigma Alpha seeks to recognize the best students in political science in order to -- according to its national constitution -- "stimulate productive scholarship and intelligent interest in the subject of government." The local Pi Sigma Alpha chapter regularly presents films and speakers, and has a picnic for Political Science students. The national chapter awards some graduate scholarships for exceptional students.

Special Scholarships
Each year outstanding juniors and seniors are selected to receive the department's highest honors, the Ruth L. Gant Memorial Scholarship and the Cornelius Roach Scholarship.

Randall L. Miller Scholarship. Established 2005 in memory of Randall Miller, this $1,500 award will be given to students who are both citizens of Missouri and come from a household with an annual income of $40,000 or less.
In addition, Roach Book Awards -- intended to help defray the costs of books -- are presented each semester, when resources permit, to declared political science majors who meet departmental standards of excellence.

Career Implications of the Bachelor's Degree
Political science, in addition to serving as an excellent core discipline for a liberal arts education, may also serve as vocational and professional preparation for students with interests in the following areas:

- Law school and legal careers
- Electoral politics
- Government service
- Not-for-profit and public-interest organization employment
- Business and finance
- Teaching and research
- Public and private political research and consulting services
- Electronic and print journalism

Additionally, before they take a regular job or go to graduate or professional school, many of our graduates have gone into the Peace Corps, AmeriCorps or other temporary - but exciting - service organizations.

Teacher Certification in Social Studies
Certification as a middle school (grades 5-9) or secondary (grades 9-12) social studies teacher in either Kansas or Missouri requires that a student complete specific requirements in History, Political Science, Economics, Geography, Behavioral Sciences and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.
Pre-Law
Pre-Law Program
Scofield 9
711 E. 51st Street
(816) 235-6094
http://cas.umkc.edu/prelaw

Mailing Address
University of Missouri-Kansas City
Pre-Law Program
Scofield 9
5100 Rockhill Road
Kansas City, MO 64110-2499

Program Coordinator:
Carla Oppenheimer, J.D.
oppenheimercc@umkc.edu

UMKC Pre-Law Program

The UMKC Pre-law Program is designed to help you make wise decisions about becoming a lawyer. It provides advice and information concerning the best possible path for each individual student, from the first semester of undergraduate courses to admission into law school.

The first thing to note about joining the Program is that it is not a major. There is no one major that prepares you for law school. In fact, there are over 30 majors at UMKC that a student may choose from and be on track for entrance into law school.

To garner the skills necessary for success, the pre-law student should select a curriculum that hones and develops superior writing skills, along with excellent oral communication, logical reasoning, and critical reading skills.

It is not enough, however, to be prepared for the academic rigors of law school. You’ll want to ask yourself the following questions:

- Do you really want to become a lawyer?
- What law schools should you apply to?
- What does it mean to be a lawyer?
- What area of the law do you want to practice in?
- What are the alternative careers available to someone with a law degree?

When you have made the decision to pursue acceptance into law school, you’ll need details on how to go about successfully presenting yourself to the admissions committee in your application. The Program provides answers to the following questions:

- What do you need to do to apply to law school?
- What do you need to do to succeed in law school?
- How can you afford law school?
90+ Program

UMKC's School of Law and The College of Arts and Sciences offer the motivated student a faster track to a legal education. While an undergraduate degree is usually a requirement for admission into law school, UMKC offers students the opportunity to start law school after completing as little as 90 undergraduate credit hours. Students then complete their undergraduate degree with law school credits. By overlapping credits, students can shorten the length of time necessary for completing their education by as much as one year.

90+ Participation

A student's first 30 hours at UMKC's School of Law may fulfill as many as 30 credit hours of non-Arts and Sciences electives towards an undergraduate degree. Therefore, if a student completes all of the general education, major, and upper-level requirements, leaving only elective credits to receive an undergraduate degree, the student may apply to the law school at UMKC.

If accepted, the student can start law school without having actually received an undergraduate bachelor's degree. The student will receive the undergraduate degree after earning the requisite amount of law school credits necessary to fulfill the remaining amount of undergraduate elective credits (up to 30 hours).

Any student who is pursuing a degree in The College of Arts and Sciences may participate. The 90+ program does not guarantee admission into UMKC's School of Law. Participants must apply and otherwise qualify for law school admission by having a competitive undergraduate GPA and LSAT score.

Road to Admission

Any interested student should meet early and often with the pre-law advisor. Given the number of requirements that must be satisfied in such a short period of time, potential 90+ students must monitor their progress with great care.

There are a number of necessary tasks to be completed by the student in order to qualify for the 90+ Program:

- The final 30 hours prior to enrolling in UMKC’s School of Law must be from courses in UMKC's College of Arts and Sciences.
- Requirements to be completed prior to enrollment at UMKC’s School of Law:
  - All general education requirements
  - All major requirements (and those for a minor if student chooses to complete a minor)
  - 36 hours of junior/senior (300/400-level) coursework
- Application for Graduation: After earning approximately 60-75 credit hours, the interested student should apply for graduation in the Arts and Sciences Advising Office (Scofield Room 9). Students should note on the application for graduation that they are 90+ Program candidates. As part of the graduation process, the student must schedule an audit with her/his major/minor advisors after applying for graduation. A general education audit will also be done, requiring the student to meet again with an advisor in the A&S Advising Office. The audit should be completed by the end of the fall semester prior to starting law school.

Students that are able to finish any necessary requirements prior to enrollment at the School of Law are encouraged to create a plan with the pre-law advisor directly after all audits are complete.
• Letter of Interest: After applying for graduation and completing the audit, the student must contact the pre-law advisor to arrange to have a letter sent to UMKC’s School of Law stating that there is a plan in place that will allow the student to complete all requirements prior to enrolling in the law school the following fall. The advisor will send the letter to the law school at the end of the semester after all the required course work is completed. This process should be done during the student’s last year of undergraduate study.

UMKC College Mock Trial Program
The UMKC College Mock Trial program is a member of the American Mock Trial Association (AMTA). At the beginning of every school year, AMTA provides a case which is available to all members on its website. Using the case materials and the various rules of evidence and procedure (based on the rules that govern practice in United States federal courts), the student teams of 6-8 present the case in front of judges in competitions against teams from around the Midwest, as well as the entire nation. Students can participate either as attorneys, witnesses, or both.

Mock Trial is an excellent activity for those students who are considering attending law school for several reasons. First, it provides the student with a taste of one aspect of being a lawyer: trial litigation. While the mock trials are not perfect replicas of a real-world trial, they are structured in the same format and they do call upon the same skills that a real trial lawyer needs to succeed. The experience can prove valuable in that it can help students decide if they really want to attend law school and go on to practice law. Moreover, mock trial helps the student develop those skills that make trial lawyers successful, such as:

• Superior oral communication skills
• The ability to quickly develop and articulate a logical, persuasive argument
• An understanding of the rules of evidence

Of course, the UMKC College Mock Trial program is not just for pre-law students. The oral communication and logical reasoning skills that are honed in mock trial will benefit all students, regardless of their intended vocation. Doctors, politicians, business persons, pharmacists, teachers, accountants, and just about every other potential profession rely to some degree on these skills.

Requirements for Joining the Team
Participation is only open to current UMKC undergraduate students who do not have a prior graduate or professional degree or prior UMKC students who have graduated within 120 days of the tournament. This is an official AMTA requirement.

Students interested in becoming members of the program should contact the coach, Jessica Bernard at bernardjm@umkc.edu.
Psychology
Department of Psychology

Physical Address
Department of Psychology Office
Cherry Hall, Suite 324
5030 Cherry Street
Kansas City, MO 64110-2499
(816) 235-1318 (Phone)
(816) 235-1062 (Fax)
Psychology E-Mail

Department of Psychology
Undergraduate Psychology Advising Office
Cherry Hall, Room 330
5030 Cherry Street
(816) 235-1092 Phone
(816) 235-1062 Fax
Undergraduate Advising E-mail

Mailing Address
University of Missouri-Kansas City
Department of Psychology
5030 Cherry Street, # 324
Kansas City, MO 64110-2499

For an up-to-date listing of faculty, please visit the Department of Psychology website.

Department Chair:
Jennifer D. Lundgren

Professors:
Delwyn Catley, Diane L. Filion, Kathleen J. Goggin, Joan McDowd, Tamera B. Murdock

Associate Professors:
Jared M. Bruce, Leah K. Gensheimer, Jennifer D. Lundgren (Chair), Melisa Rempfer, Lisa Terre

Assistant Professors:
Robin L. Aupperle, Kymberly K. Bennett, Jannette Berkley-Patton, Amanda S. Bruce, Seung-Lark Lim

Assistant Teaching Professors:
Megan K. Littrell-Baez
Department Description
The Department of Psychology is focused on behavioral science contributions to health and healthcare. Our faculty members are national and international leaders in research on areas such as HIV/AIDS, tobacco use, obesity and eating disorders, cancer, neuropsychological functioning, safety and violence and community factors in health. We have strong and active collaborations with important community partners such as Saint Luke’s Hospital, the Cancer Institute, Mid America Heart Institute, the Kansas City Free Health Clinic, University of Kansas Medical Center, Truman Medical Center and the Calvary Community Outreach Network. At the undergraduate level, the department offers a general program of study leading to the bachelor of arts degree in psychology. A psychology minor is available to students majoring in other disciplines. Graduate programs are also offered by the Department of Psychology. See

Undergraduate Programs

- Suggested Plan of Study in Psychology
- Bachelor of Arts: Psychology
  - Student Learning Outcomes
  - Program Requirements
- Minor in Psychology
- Undergraduate Courses in Psychology (PSYCH)

Graduate Programs

- Master of Arts: Psychology
  - Graduate Admissions
  - Student Learning Outcomes
  - Suggested Plan of Study
  - Requirements for Retention
- Doctor of Philosophy: Clinical Program (Health Emphasis)
  - Admission Criteria
  - Admission Procedure
  - Student Learning Outcomes
  - Program Requirements
  - Requirements for Retention
- Doctor of Philosophy: Experimental Health Psychology Track
  - Admission Criteria
  - Admission Procedure
  - Program Requirements
  - Requirement for Retention
- Graduate Psychology (PSYCH) Courses
the "Degree Programs" link at the Department of Psychology Web site, for information on current graduate degree offerings.

**Career Implications of the Degree**
Psychology is a broad discipline incorporating material from the natural sciences, other social sciences and the humanities. The study of psychology entails an examination of the human condition that is relevant to a wide range of occupations. A psychology major serves as the basis for an excellent liberal arts education and also serves as an excellent introduction to the world of scientific inquiry. Psychology students learn about the important concepts that underlie current scientific thought and they receive training in the application of psychological research methods.

The educational background obtained by a student majoring in psychology will prove useful in a variety of professional settings and will provide adequate preparation for entry-level positions in a variety of fields. Graduates with bachelor's degrees in psychology have established careers in such diverse areas as:

- Business and industry
- Child care
- General healthcare
- Gerontology
- Mental health services
- Probation and parole
- Public relations and marketing
- Research or laboratory assisting
- Services for the developmentally disabled
- Social services

For students interested in pursuing a career in the field of psychology, a psychology major is clearly a logical beginning. There are positions available to job candidates with bachelor's degrees in psychology; however, most professional opportunities in psychology require advanced degrees (i.e., master's, doctorate). Students who want to pursue a career in psychology are advised to prepare for graduate study. The psychology major at UMKC offers a solid educational foundation for students who plan to work toward advanced degrees in the field.

**Department Activities**

**Honor Society**
The department has a chapter of Psi Chi, the national honor society in psychology. Each year Psi Chi presents a variety of educational and social programs. Membership is open to students at both undergraduate and graduate levels. Regular meetings are held throughout the academic year. Please visit the Psi Chi & Psychology club website.

**Psychology Club**
The department also has a Psychology Club. The members of the Psychology Club join with the members of the Honor Society for educational social programs. Membership is open to students at both undergraduate and graduate level who have an interest in psychology. Regular meetings are held throughout the academic year jointly with PsiChi. Please visit the Psi Chi & Psychology club website.

**Bernard Lubin Memorial Speaker Series**
This speaker series is sponsored by UMKC's Department of Psychology and is named in memory of Dr. Bernard Lubin, Curator's Professor Emeritus, to honor his contributions and dedication to the field of psychology. To learn about scheduled speaker events, see our Department Website.
Psychology Activity Committee
The focus of the Psychology Activity Committee (PAC) is to coordinate graduate student and student-faculty social events, enhance communication between the members of various graduate programs in the department, and coordinate educational events to support the professional development of students in the graduate programs. The committee and the events planned are open to graduate students within the Department of Psychology.

Advising System
For Undergraduate Psychology Program information, please contact the Psychology Advising Office at umkcpuga@umkc.edu (816) 235-1092.
For UMKC College of Arts & Sciences general education requirements, please contact the College of Arts & Sciences Advising Office directly at (816) 235-1148.
See the Undergraduate Psychology Program Advising website for more information.

Financial Aid
Financial aid information can be found on the UMKC Financial Aid website at:
http://www.sfa.umkc.edu/site2/

Part-time graduate teaching and research assistantship positions may be available to Psychology doctoral students. These opportunities will be discussed with students at the time of their acceptance into the program.

Bachelor of Arts: Psychology
For questions regarding the Undergraduate Psychology Program, or to schedule an appointment with a Psychology Adviser, please contact the Psychology Advising Office at umkcpuga@umkc.edu or (816) 235-1092. If the advisers are unavailable, please contact the Department of Psychology Office (816) 235-1318 to schedule an appointment with a Psychology Adviser.

The Undergraduate Psychology Program is designed to provide majors with a base of scientific knowledge in psychology, as well as a broad background in the field for students who want to pursue graduate study.

See Undergraduate Advising for more information.

Students graduating with a B.A. in Psychology will:
1. Demonstrate knowledge of the major theories, concepts, research, and historical trends in psychology and breadth in the following four domains: - biological bases of behavior - developmental changes - learning and cognition - individual differences, personality, psychometrics, and social processes.
2. Understand and apply basic research in psychology, including research design, statistical analysis, and interpretation of results.
3. Be able to effectively approach, consider, and solve problems through clear, logical, critical, and scientific thinking.
4. Apply theories, terms, statistical methods, and empirical findings in psychological science to real-world contexts.
5. Understand and recognize the necessity for ethical behavior in all aspects of the science and practice of psychology.
6. Demonstrate effective written and oral communication skills.
7. Recognize the complexity of human diversity and understand the influence of macro and micro contexts on people’s psychological functioning and development.
8. Identify relevant course work, experiences, and skills that will facilitate entry into the work force, post-baccalaureate education, or both.

Majors are required to complete a minimum of 31 hours of coursework in psychology. Of the 31 hours of required coursework in psychology, a minimum of 22 hours must be completed at UMKC. The major is comprised of general, core area and elective courses.

**General Courses (13 hours)**
Students must complete the following four general courses:
1. PSYCH 210 General Psychology
2. PSYCH 316 Quantitative Methods in Psychology
3. PSYCH 302WI Experimental Psychology -and-
4. PSYCH 415 History and Systems of Psychology

Note: PSYCH 316, PSYCH 302WI and PSYCH 415 must be completed at UMKC.

**Core Area and Elective Courses (18 hours)**
The remaining hours comprise a minimum of four core area courses and two 300-400 level elective courses. A minimum of one course must be taken from each core area.

Students may transfer core areas and/or 300- or 400-level psychology electives approved by the Department of Psychology. However, a minimum of 22 credit hours must be taken from the Department of Psychology at UMKC.

Core Area A:
- PSYCH 312 Social Psychology -or-
- PSYCH 322 Child Psychology

Core Area B:
- PSYCH 323 Theory and Methods of Personality -or-
- PSYCH 433 Abnormal Psychology

Core Area C:
- PSYCH 308 Sensation and Perception -or-
- PSYCH 418 Brain & Behavior I

Core Area D:
- PSYCH 304 Learning -or-
- PSYCH 405 Motivation -or-
- PSYCH 407 Cognitive Psychology

Two Elective Courses:
A minimum of two (300-400 level) elective courses in psychology must be selected. See Undergraduate Advising for a complete list of undergraduate psychology courses that may serve as these electives. A maximum of 3 credit hours for PSYCH 490, Directed Individual Research, may be used toward fulfilling elective requirement.

**Music Therapy/Psychology Double Majors**
For students double-majoring in Music Therapy and Psychology:
- CONSVTY 260 Clinical Foundations of Music Therapy can fulfill one of the two required psychology elective courses.
- CONSVTY 435 Psychological Foundations of Music can fulfill either the core area C or D requirement.
Other Requirements
A grade of "C-" or higher must be achieved for any course to apply toward the major in psychology. When you have completed 90 credit hours, contact Arts and Sciences Advising (Scofield Hall, room 9) to conduct a final degree audit. You will then meet with one of the Psychology Undergraduate Advisers to complete a major degree audit (completed at Psychology Advising, 4825 Troost, suite 110).

Completion of PSYCH 316 at Another Institution
If a student has completed PSYCH 316 at another institution, with a C- or better, he/she may petition to take an exam demonstrating mastery of PSYCH 316 course content. A score of 70 percent or above must be earned on the exam. The exam may only be attempted once. See a Psychology Adviser for more information.

Suggested Plan of Study
Before beginning a psychology major or minor, students should meet with a Psychology Adviser as the choice of electives strongly depends on students’ educational and career intentions. In general, students should complete PSYCH 316 and 302WI as early as possible. PSYCH 415 is to be taken during the senior year.

For students planning to attend graduate school in psychology, it is also desirable to complete a directed individual research course (PSYCH 490) well before graduation. Students wishing to take PSYCH 490 must contact a professor who will agree to supervise their work. Together they will discuss the possibility of doing research in an area of mutual interest. Additionally, students must complete a PSYCH 490 application prior to course registration. PSYCH 490 must be taken with a full-time faculty member.

Recommended Plan of Study
PSYCH 210 General Psychology must be completed prior to enrollment in upper division (300- or 400-level) psychology courses. The department recommends completing this course as part of the General Education requirements.

Semester 1 of Psychology Major Course Requirements:
- PSYCH 316 Quantitative Methods in Psychology
- One Core Area A or B Course*

Semester 2 of Psychology Major Course Requirements:
- PSYCH 302WI Experimental Psychology
- One Core Area A or B Course*

Semester 3 of Psychology Major Course Requirements:
- Two Core Area C and D Courses*

Semester 4 of Psychology Major Course Requirements:
- PSYCH 415 History and Systems of Psychology
- Required Psychology Elective 1
- Required Psychology Elective 2

* The plan of study requires a minimum of one course from each of the four Core Areas.

General Advice for Developing a Plan of Study
Note that the Department of Psychology varies course offerings each semester. Not all courses are offered every year. Students with the required prerequisite courses who are interested in a particular elective or core area course should enroll when it is offered. Do not plan to complete coursework by taking courses during the summer. The department usually offers some courses during the summer term, but doesn't guarantee that all required courses will be offered.
Make sure the pre-requisites for courses are met prior to enrollment. Students who do not meet course pre-requisites will be asked to drop from the course during the first week of the term. At that time alternative courses may no longer be open.

**Psychology Minor/Double Major**
Eighteen hours of coursework in psychology are required for a psychology minor with at least 12 of those hours at the upper-division level. Of the 18 hours a minimum of nine hours must be completed at UMKC. Also, six of the 18 hours must be at the 300- or 400-level and selected from courses taught in the Department of Psychology at UMKC. A grade of "C-" or higher must be achieved for any course to apply toward the minor in psychology.

The following are required of all psychology majors and minors:
- PSYCH 210 General Psychology (3)
- PSYCH 302WI Experimental Psychology (4)
- PSYCH 316 Quantitative Methods In Psychology (3)
- PSYCH 415 History And Systems Of Psychology (3)

Note: PSYCH 302WI, PSYCH 316 and PSYCH 415 must be completed at UMKC.

Conservatory of Music and Dance students in the bachelor of arts in music with a music therapy emphasis program, who also want to major in psychology, may apply up to six hours of courses taken in the Conservatory toward the psychology major. Specifically, CONSVTY 260, Clinical Foundations of Music Therapy, can be counted as one of the two required electives; and CONSVTY 435, Psychological Foundations of Music, may fulfill psychology core area C or D (308/418 or 304/405/450).

**Master of Arts: Psychology**
Contact Person: Cathy Rawlings

Note. Beginning academic year 2012-2013, the Department of Psychology is no longer accepting new students into the Master of Arts in Psychology program. The information that follows is applicable to students accepted to the program prior to Fall 2012. Students enrolled in the Doctor of Philosophy (PhD) in Psychology degree program are eligible for a Master of Arts in Psychology degree as part of the PhD in Psychology degree program. A detailed list of requirements for obtaining a Master of Arts in Psychology degree as part of the PhD in Psychology degree program can be found in the PhD program handbook. Please visit the Department of Psychology website for information regarding this program.

The Master of Arts in Psychology Program prepares students for research careers in academic or community psychology settings. The program involves training in theory, research design and statistics, and the application of principles to real world situations. The program provides advanced training both for recent graduates and for individuals who have been in the work force for a number of years. Although some students subsequently enter doctoral programs and complete Ph.D.s, many immediately accept challenging jobs in the public, private or non-profit sector. Students may complete the program on a full- or part-time basis. However, to ensure the timeliness of training, all program requirements must be completed within five years from admission.

The program is research oriented and provides many opportunities to gain valuable experience in conducting research and includes experimental studies working with human participants in a variety of areas. See faculty interests and on-going projects on the Department of Psychology website.

*Potential applicants should be aware that the Master of Arts in Psychology program is not designed to prepare students for professional practice as a psychologist. Further, completion of the Master of Arts in Psychology program is not adequate preparation for either the practice of psychology or use of the term “psychologist,” both of which are regulated by state statute. Students interested in the practice of*
psychology should consider the Clinical Psychology Ph.D. program described under the Department of Psychology listing.

Note. Beginning academic year 2012-2013, The Department of Psychology is no longer accepting new students into the Master of Arts in Psychology program. The information that follows is applicable to students accepted to the program prior to Fall 2012. Students enrolled in the Doctor of Philosophy (PhD) in Psychology degree program are eligible for a Master of Arts in Psychology degree as part of the PhD in Psychology degree program. A detailed list of requirements for obtaining a Master of Arts in Psychology degree as part of the PhD in Psychology degree program can be found in the PhD program handbook.

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Master of Arts in Psychology Program Student Learning Outcomes

1. To provide students with knowledge and skills in the evaluation, conduct, and dissemination of psychological research.
2. To provide students with knowledge of ethical principles and to promote ethical conduct and high professional standards in research and applied situations.
3. To provide students with knowledge and skills working with diverse individuals in professional contexts.

Note. Beginning academic year 2012-2013, The Department of Psychology is no longer accepting new students into the Master of Arts in Psychology program. The information that follows is applicable to students accepted to the program prior to Fall 2012. Students enrolled in the Doctor of Philosophy (PhD) in Psychology degree program are eligible for a Master of Arts in Psychology degree as part of the PhD in Psychology degree program. A detailed list of requirements for obtaining a Master of Arts in Psychology degree as part of the PhD in Psychology degree program can be found in the PhD program handbook. Potential applicants should be aware that the Master of Arts in Psychology program is not designed to prepare students for professional practice as a psychologist. Further, completion of the Master of Arts in Psychology program is not adequate preparation for either the practice of psychology or use of the term “psychologist,” both of which are regulated by state statute. Students interested in the practice of psychology should consider the Clinical Psychology Ph.D. program described under the Department of Psychology listing.

The program is designed for students who seek rigorous training in research design and statistical analysis. Acquiring skills in these areas will prepare students for additional graduate training as well as for immediate application in a work setting. Quantitatively skilled professionals are employed in a variety of settings including: university departments such as psychology, marketing, management, education, medical and biological research programs, personnel management programs, government, industry, market research firms, large-scale mental testing corporations, software development companies and consulting firms.

One key component of training is six credit hours of a capstone research project, either research and thesis or directed research program evaluation, in which students will, under the direct supervision of faculty, apply the skills they have learned in the classroom to real-world problems and research questions.
Total: 36 Hours
PSYCH 5516 Advanced Quantitative Methods 3
PSYCH 5517 Multiple Regression and Multivariate Analysis 3
PSYCH 5530: Addressing Health Disparities through Community Based Participatory Research 3
PSYCH 5538 Development and Evaluation of Assessment Tools 3
PSYCH 5601 Experimental Methods in Design and Analysis I 3
PSYCH 5590 Directed Research OR PSYCH 5599 Research and Thesis 6
Psychology Elective* 3
Electives** 12
* Psychology electives must be 5500 level or above, unless prior written approval is obtained from your psychology adviser and the course instructor. Documentation of completion of additional work in undergraduate courses must be filed with the department in order to obtain graduate credit. Refer to the MA in Psychology handbook for elective options.

** Courses at the 5500 level or above from other UMKC departments may be used to fulfill these requirements; however, prior written approval from your psychology adviser is required.

Note. Beginning academic year 2012-2013, The Department of Psychology is no longer accepting new students into the Master of Arts in Psychology program. The information that follows is applicable to students accepted to the program prior to Fall 2012. Students enrolled in the Doctor of Philosophy (PhD) in Psychology degree program are eligible for a Master of Arts in Psychology degree as part of the PhD in Psychology degree program. A detailed list of requirements for obtaining a Master of Arts in Psychology degree as part of the PhD in Psychology degree program can be found in the PhD program handbook. A detailed list of requirements for retention can be found in the Master of Arts Psychology Degree Program Handbook.

Doctor of Philosophy: Psychology

Doctor of Philosophy: Clinical Psychology (Health Emphasis) Track
Contact Person: Cathy Rawlings http://cas.umkc.edu/psychology/GCPhD.asp

Note: The information on the Department of Psychology web pages (link above) supersedes information in this Department of Psychology catalog section, as the catalog is updated only once per year.

The Clinical Psychology (Health Emphasis) Track is a full-time, day-time clinical program of graduate study that provides professional education in the entry-level science and practice of clinical psychology. Within this broader context, the program also integrates clinical and epidemiological research with the health and life sciences, providing science-practice training in clinical health psychology. Based on a scientist-practitioner model, the program seeks to:

• Enhance the public health, broadly defined, through rigorous training of students (education mission).

• Provide an accessible resource for the integration of behavioral sciences and health research and healthcare (service mission).

• Develop knowledge and enhance health outcomes through empirical research (research and evaluation mission).
• Incorporate integrity and respect for human and intellectual diversity in all our activities (human
mission).

The program's clinical training and services are grounded in a commitment to the integration of science
and practice. Program faculty and students are actively involved in community and healthcare systems to
promote a high quality of life for all.

* UMKC also offers a Ph.D. in Counseling Psychology through the School of Education. For information
on that program, please see http://education.umkc.edu/CEP.

Students completing the Clinical Psychology (Health Emphasis) Track will demonstrate:
  1. Competence in the evaluation, conduct, and dissemination of research.
  2. Entry-level skill in the delivery of empirically-supported clinical services, including science-
practice integration in assessment, treatments, and preventive interventions.
  3. Ethical conduct and high professional standards in research and clinical situations, including
sensitivity to issues of diversity in research and practice.
  4. Knowledge in the theoretical and scientific foundations of clinical health psychology and skill in
clinical health psychology research and evidence-based, entry-level practice, as it is integrated
within the broader context of clinical psychology.
  5. Understanding of the breadth areas of scientific psychology and their application to clinical and
clinical health psychology.

The program is designed for applicants with a prior bachelor's or master's level degree. New students are
admitted in fall semester only. Because the program receives applications from many more qualified
individuals than can be admitted, admission is competitive (see links to detailed information below). All
application materials must be received by December 5 to be considered for admission the following fall.
Visit the Clinical Psychology (Health Emphasis) Track web page for current application procedures
and links to other helpful application resources.

The following are minimum criteria recommended for admission:

1. A bachelor's degree in Psychology, Counseling, Special Education or other health-related discipline
such as Pre-Med or Nursing. Satisfactory completion of prior coursework in Introductory/General
Psychology, Experimental Methods/Research Design and Statistics/Quantitative Methods is required.
Satisfactory completion of prior coursework in at least two of the following areas is also strongly
recommended: Abnormal Psychology, Personality, Biopsychology, Sensation and Perception, Cognitive
Psychology, Motivation, Social Psychology.

2. Undergraduate GPA of 3.0 or graduate GPA of 3.5. Alternative criteria may be accepted at the
discretion of the admissions committee if there is good reason to believe the regular criteria do not
adequately portray the student’s potential to do quality work in the program. However, admission to the
program is highly competitive, and we seek to admit students with a general history of excellence. A
disclosure of the average GPA of students recently admitted to the program can be accessed through the
program Web page.

3. Competitive Graduate Record Examination scores from the general test (GRE Math + Verbal greater
than 300; Analytical Writing score of at least 4.5). Students whose scores fall below this recommended
minimum may present additional evidence of their capacity to do quality doctoral-level work. Such
additional evidence will be considered and accepted at the discretion of the Clinical Admissions
Committee. A disclosure of the GRE scores of students recently admitted to the program can be
accessed through the program web page.

4. Demonstrated evidence of interest in clinical health research. The program follows a mentorship model. Therefore, applicants whose research interests are similar to those of the faculty will be given higher consideration. A listing of program faculty interests and research can be accessed through the Department of Psychology People web page.

5. History of personal conduct consistent with the ability to adhere to high standards of student conduct, as outlined in the UMKC Standard for Student Conduct, and professional conduct as outlined by the American Psychological Association and state licensure boards. Because clinical and health psychology are empirically-based disciplines, the program emphasizes continuous involvement in research and practice. For this reason, students primarily interested in psychotherapy and clinical or counseling practice without a strong interest in the scientific aspect of the scientist/practitioner model would be better served by other programs.

The program typically accepts four students each year. Applicants are evaluated based on the following dimensions:

1. Academic potential
2. Research potential
3. Interpersonal skills and other indications of potential for clinical work
4. Professional identity and involvement
5. Evidence of high ethical standards

The program follows the American Psychological Association Guidelines for Graduate School Offers and Acceptances.

**Admission Procedure**

New students are admitted in fall semester only. Because the program receives applications from many more qualified individuals than can be admitted, admission into the program is highly competitive. A disclosure of relevant data for students recently admitted to the program can be accessed through the Clinical Psychology (Health Emphasis) Track web page. All application materials must be received by December 5 to be considered for admission in the following fall. Please see the Clinical Psychology (Health Emphasis) Track web page for current application procedures. The program follows the American Psychological Association Guidelines for Graduate School Offers and Acceptances.
A detailed description of program policies and procedures, including the requirements for retention, is available in the student handbook which can be accessed through the Clinical Psychology (Health Emphasis) Track web page.

The following represents the program’s core curriculum.

**First Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Name</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
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<tr>
<td>PSYCH 5509</td>
<td>Assessment I: Intellectual &amp; Cognitive Assessment</td>
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<td>Quantitative Analysis I: Regression &amp; Analysis of Variance</td>
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<td>or</td>
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<td>PSYCH 5517</td>
<td>Quantitative Analysis II: Advanced Topics in Regression &amp; Multivariate Data Analysis</td>
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<td>or</td>
<td>PSYCH 5599</td>
<td>1</td>
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<tr>
<td>PSYCH 5601</td>
<td>Experimental Methods in Design</td>
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<td><strong>Summer Semester</strong></td>
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<tr>
<td>PSYCH 5650</td>
<td>Clinical Practicum(optional)(2)</td>
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**Second Year**

<table>
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<tr>
<th>Semester</th>
<th>Course Name</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
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<tr>
<td>PSYCH 5580</td>
<td>Structural Equation Modeling</td>
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<tr>
<td>PSYCH 5590</td>
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<td>or</td>
<td>PSYCH 5599</td>
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</tr>
<tr>
<td>PSYCH 5580</td>
<td>Evidenced Based Clinical Practice</td>
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</tr>
<tr>
<td>Course</td>
<td>Title</td>
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<tr>
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<tr>
<td>PSYCH 5632</td>
<td>Health Psychology Interventions (3)</td>
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<tr>
<td>PSYCH 5631</td>
<td>Theoretical Foundations of Health Psychology</td>
<td>3</td>
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<td>PSYCH 5650</td>
<td>Clinical Practicum</td>
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### Spring Semester

<table>
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<tr>
<td>PSYCH 5538</td>
<td>Development &amp; Evaluation of Assessment Tools</td>
<td>3</td>
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<tr>
<td>PSYCH 0000</td>
<td>Core Psychology (4)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>PSYCH 5580</td>
<td>Special Topics in Health Psychology</td>
</tr>
<tr>
<td>or</td>
<td>PSYCH 5590</td>
<td>Directed Research</td>
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<tr>
<td>or</td>
<td>PSYCH 5599</td>
<td>Thesis(1)</td>
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<td>PSYCH 5650</td>
<td>Clinical Practicum</td>
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<td><strong>Total Hours</strong></td>
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### Summer Semester

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<td>PSYCH 5650</td>
<td>Clinical Practicum(optional)(2)</td>
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## Third Year

### Fall Semester

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<td>PSYCH 0000</td>
<td>Core Psychology (4)</td>
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<tr>
<td>PSYCH 5580</td>
<td>Supervision</td>
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<td>PSYCH 5650</td>
<td>Clinical Practicum</td>
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<td>PSYCH 5696</td>
<td>Pre-Dissertation(5)</td>
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### Spring Semester

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<th>Hours</th>
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<tbody>
<tr>
<td>PSYCH 0000</td>
<td>Core Psychology (4) or Special Topics in Health Psychology</td>
<td>3</td>
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<tr>
<td>PSYCH 5650</td>
<td>Clinical Practicum</td>
<td>1</td>
</tr>
<tr>
<td>PSYCH 5696</td>
<td>Pre-Dissertation(5)</td>
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### Summer Semester

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## Fourth Year

### Fall Semester

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<tr>
<th>Course</th>
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<tr>
<td>PSYCH 0000</td>
<td>Core Psychology (4)</td>
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<td>PSYCH 5650</td>
<td>Clinical Practicum</td>
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<td>Course</td>
<td>Description</td>
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</tr>
<tr>
<td>PSYCH 5699</td>
<td>Research &amp; Dissertation (5)</td>
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### Spring Semester

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<tr>
<th>Course</th>
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<td>PSYCH 0000</td>
<td>Core Psychology (4)</td>
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<tr>
<td>PSYCH 5650</td>
<td>Clinical Practicum</td>
<td>1</td>
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<tr>
<td>PSYCH 5699</td>
<td>Research &amp; Dissertation(5)</td>
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### Fifth Year

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<th>Course Name</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>PSYCH 5660 Clinical Health Psychology Internship (6)</td>
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<td>PSYCH 5699 Research &amp; Dissertation(7)</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>2</strong></td>
</tr>
<tr>
<td>Spring Semester</td>
<td>PSYCH 5660 Clinical Health Psychology Internship (6)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PSYCH 5699 Research &amp; Dissertation(7)</td>
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</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
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</table>

Core Psychology = PSYCH 5521 Advanced Social; PSYCH 5507 Cognitive Psychology OR PSYCH 5505 Motivation; PSYCH 5518 Advanced Biopsychology; PSYCH 5515 Advanced Systems and History of Psychology; Developmental Requirement (e.g., PSYCH 5522 Contemporary Issues in Developmental Psychology; PSYCH 5543 Adult Development/Aging)

**Footnotes about the Core Curriculum:**

Note: A course number of 5580 denotes a “Special Topics” course. If more than one special topics course is offered in a semester, individual courses will be denoted with letters (e.g., 5580A, 5580B).

+ This represents the currently recommended sequencing of courses. Students may be allowed to alter this sequencing, with prior approval of the faculty advisor and DCT. This sequencing is also subject to change based on course availability in a given semester as determined by the program.
1) Students are required to officially enroll and accumulate 6 hours of research credit over their first 2 years in the program (6 credit hours of graduate level research credit are required to receive the M.A.). If the master’s thesis project has been waived or completed, formal enrollment in directed research still is required. It is expected that all students will be actively involved in research and evaluated on their research performance every fall and winter semesters. Students who have had the M.A. requirement waived need only take 1 credit hour of research in each semester of the second year. However, students will still need to accumulate the additional 8 research credit hours required over and above the master’s thesis requirement to reach the graduate school minimum of 12 research credit hours for the Ph.D.
2) The program requires that students enroll in practicum each regular Fall and Winter semester of the second, third, and fourth years. Students may complete additional clinical hours in summer practicum to improve their competitiveness for internships. Official enrollment is optional, although documentation of supervised hours is required for those to be included.
3) This course may be taken during the third year (same semester) instead of the second year.
4) Evidenced Based Clinical Practice and Health Psychology Interventions are both required, however, these courses will offered in alternate years.
5) There are 5 core course requirements (see list at the bottom of the table). In some areas (e.g., Developmental) alternative courses may be used to fulfill the requirement.
6) The graduate school requires at least 12 hours of graduate research credit to graduate with a Ph.D. Our program requires a total of 8 research credit hours (pre-dissertation and dissertation) beyond the 6 required for the master’s thesis for graduation. You may accumulate these hours in any way you wish as long as you complete the additional 8 hours prior to graduation. However, you must first pass comps before enrolling in dissertation units.

7) Due to variable internship start and end dates you may only officially complete your internship after the end of the Spring semester. In these cases an incomplete grade will be given until official completion of the internship. Note that the university generally requires students to be enrolled in the semester that they graduate. However, providing all other program requirements have been completed by the end of the spring semester (such as the dissertation) the DCT will request that summer enrollment be waived for students graduating in the summer. If all other requirements are not completed you will be required to enroll in at least one credit (for example, if your dissertation is not yet defended you will enroll in 1 credit of research for the summer semester).

8) Students who defend their dissertations prior to the 5th year do not register for continuing dissertation hours. Students, fifth year or beyond, who have not successfully defended the dissertation are required to enroll in 1CH of Dissertation each fall and winter semester until it is completed.
Doctor of Philosophy: Psychology: Experimental Health Psychology Track
Contact Person: Cathy Rawlings
http://cas.umkc.edu/psychology/EHPPhD.asp
http://cas.umkc.edu/psyc/grad/clinical.htm

Note: The information on the Department of Psychology web pages (link above) supersedes information in this Department of Psychology catalog section, as the catalog is updated only once per year.

The mission of the Experimental Health Psychology Track at UMKC is to enhance health outcomes, broadly defined, for individuals and communities. In service of this mission, we offer advanced training in the fundamental areas of experimental psychology, health psychology, and quantitative and methodological approaches for applied psychology. The program emphasizes the development of research skills and empirical investigation of real-world problems in the life and health sciences. Graduates are prepared for careers in academia, allied health, industry, and government agencies.

Experimental Health Psychology at UMKC is a full-time program of graduate study. Didactic instruction is integrated with research from the beginning of students' training. Students are paired with a faculty mentor and become part of a lab where they learn how basic research is applied to practical problems and develop the knowledge and skills to carry out original research. These experiences are graded in complexity and designed to foster the development of cumulative knowledge and skill as the student progresses through the program.

Students completing the Experimental Health Psychology Track will demonstrate:

1. Competence in the evaluation, conduct, and dissemination of research to support independent activity at the next level (e.g., post-doctoral research, academic research, applied research),
2. Ethical conduct and high professional standards in research, including sensitivity to issues of diversity,
3. Knowledge in the theoretical and scientific foundations of health psychology, and
4. Understanding of the breadth areas of scientific psychology and their application to health psychology.

The program is designed for applicants with a prior bachelor's or master's level degree. The following are minimum criteria recommended for admission:

1. A bachelor's degree in Psychology or related discipline. Satisfactory completion of prior coursework in Introductory/General Psychology, Experimental Methods/Research Design and Statistics/Quantitative Methods is required. Satisfactory completion of prior coursework in at least two of the following areas is also strongly recommended: Biopsychology, Cognitive Psychology, Learning, Motivation, Neuroscience, Sensation and Perception, and Social Psychology.
2. Undergraduate GPA of 3.0 or graduate GPA of 3.5. Alternative criteria may be accepted at the discretion of the admissions committee if there is good reason to believe the regular criteria do not adequately portray the student’s potential to do quality work in the program. However, admission to the program is highly competitive, and we seek to admit students with a general history of excellence.
3. Competitive Graduate Record Examination scores from the general test (GRE Math + Verbal greater...
than 300; Analytical Writing score of at least 4.5). Students whose scores fall below this recommended minimum may present additional evidence of their capacity to do quality doctoral-level work. Such additional evidence will be considered and accepted at the discretion of the Admissions Committee.

4. Demonstrated evidence of interest in health research. The program follows a mentorship model. Therefore, applicants whose research interests are similar to those of the faculty will be given higher consideration. A listing of program faculty interests and research can be accessed through the Department of Psychology web page.

5. History of personal conduct consistent with the ability to adhere to high standards of student conduct, as outlined in the UMKC Standard for Student Conduct.

A detailed description of program policies and procedures, including the requirements for retention, is available in the student handbook that can be accessed through the Experimental Health Psychology Track web page.

New students are admitted in fall semester only. Because the program receives applications from many more qualified individuals than can be admitted, admission is competitive. All application materials must be received by December 5 to be considered for admission the following fall. Visit the Experimental Health Psychology Track web page for current application procedures and links to other helpful application resources.

A detailed description of program policies and procedures, including the requirements for retention, is available in the student handbook that can be accessed through the Experimental Health Psychology Track web page.

The following represents the program’s core curriculum.

<table>
<thead>
<tr>
<th>Sem-Year</th>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FS-1</td>
<td>PSYCH 5516 Quantitative Analysis I: Regression &amp; Analysis of Variance</td>
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<td>FS-1</td>
<td>PSYCH 0000 Psychology Core Course</td>
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<td>FS-1</td>
<td>PSYCH 5590 Directed Research</td>
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<tr>
<td>WS-1</td>
<td>PSYCH 5517 Quantitative Analysis II: Advanced Topics in Regression &amp; Multivariate Data Analysis</td>
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<td>WS-1</td>
<td>PSYCH 5601 Experimental Methods in Design</td>
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<tr>
<td>WS-1</td>
<td>PSYCH 5590 Directed Research</td>
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</tr>
<tr>
<td>FS-2</td>
<td>PSYCH 5631 Theoretical Foundations of Health Psychology</td>
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<td>FS-2</td>
<td>PSYCH 5538 Development &amp; Evaluation of Assessment Tools</td>
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<td>PSYCH 5599 Thesis</td>
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<td>PSYCH 5580 Structural Equation Modeling/Hierarchical Modeling</td>
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<td>PSYCH 5599 Thesis</td>
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<tr>
<td>FS-3</td>
<td>PSYCH 0000 Psychology Core Course</td>
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At completion of master's degree: 36 total credits
12 research credits
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<td>PSYCH 5696</td>
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<td>WS-3</td>
<td>PSYCH 5601</td>
<td>Experimental Methods in Design</td>
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<td>WS-3</td>
<td>PSYCH 5696</td>
<td>Pre-dissertation</td>
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<tr>
<td>SUM-3</td>
<td></td>
<td>Comprehensive Exam to advance to candidacy</td>
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<tr>
<td>FS-4</td>
<td>PSYCH 5699</td>
<td>Research and Dissertation</td>
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If students do not defend their dissertation by the end of the 4th year, they must enroll in 1 credit of Dissertation in each succeeding semester until it is completed.

**Post-master's degree: 24 total credits**

**12 research credits**

**Program: 60 total credits**

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**Psychology Core Courses**

*Students must take four of the following courses:*

- PSYCH 5521 Advanced Social Psychology
- PSYCH 5507 Cognitive Psychology
- PSYCH 5505 Motivation
- PSYCH 5518 Advanced Biopsychology
- PSYCH 5515 Advanced Systems and History of Psychology
- PSYCH 5540 Psychology of Aging or 5543 Adult Development and Aging

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**Possible electives:**

- PSYCH 5533 Psychopathology
- PSYCH 5632 Health Psychology Interventions
- PSYCH 5580 Special Topics in Health Psychology: Community Based Participatory Research
**Religious Studies**
Haag Hall, Room 204
5120 Rockhill Road
(816) 235-5704 or 5854
Fax: (816) 235-5542
rel-st@umkc.edu
http://cas.umkc.edu/Religious_Studies

**Mailing Address**
University of Missouri-Kansas City
Center for Religious Studies
Haag Hall 204
5100 Rockhill Road
Kansas City, MO 64110-2499

Program Director: Dr. Gary L. Ebersole
Professor: Dr. Gary L. Ebersole (Director; Chair, History Dept)

Associate Professors:
Dr. Jeffrey S. Bennett (Sociology/Anthropology)
Dr. Virginia Blanton (Co-Chair, Dept of English Language and Literature)

Assistant Professor:
Dr. David Freeman (History)

Adjunct Doctoral Faculty: Dr. Robert Johnson, Dr. Molly Marshall, Dr. Craig Prentiss, Dr. David May, Dr. Daniel Stramara, Jr.

- Description of Program
- Doctoral Program Requirements
- Undergraduate Religious Studies Courses
- Graduate Religious Studies Courses

**Description of Program**
The Center for Religious Studies offers an interdisciplinary, cross-cultural and socio-historical approach to the study of religion. The Center is a consortium of several area institutions of higher education that have pooled their resources to participate in the UMKC Interdisciplinary Ph.D. program. Students in religious studies are introduced to the many dimensions of religious belief, practice and expression found in human cultures across time and space.

In addition to graduate courses, the Center offers a number of undergraduate courses on topics such as gender and religion, women and religion, the anthropology of religion, and religion in America. Related courses relevant to the study of religion will be found under the listings of other departments and programs.
Social Work
School of Social Work
Master of Social Work Program
5030 Cherry Street
(816) 235-1025
Fax:(816) 235-6573
soc-wk@umkc.edu
http://cas.umkc.edu/socialwork

Mailing Address:
University of Missouri-Kansas City
School of Social Work
5100 Rockhill Road
Kansas City, MO 64110-2499

- Chair, Program Director:
- Director of Field Education: Elaine Spencer-Carver

Faculty:
- **Gloria Anderson, M.S.W., Clinical Instructor**, (cultural diversity, grief and loss, child welfare)
- **Rosalyn Bertram, Ph.D., Associate Professor**, (children, youth & families; wraparound and multi-systemic collaborative strengths-based practice, program implementation and evaluation, research)
- **Betty Blackmon, J.D., Assistant Professor**, (practice; violence across the life span; human behavior; cultural competency)
- **J. Larry Dyer, Ph.D., Clinical Instructor**, (cultural diversity, mental health, practice; substance abuse),
- **Bob Prue, Ph.D., Assistant Professor** (Social Work Research Methods, Open Source and Freely available Software for Social Workers, Interface of Indigenous Health and Healing Supports with Mainstream, Spirituality and Social Work)
- **Lee Rathbone-McCuan, Ph.D., Professor** (social policy and aging, families, international social work)
- **Patricia Scott, Ph.D., Assistant Professor** (mental health; evaluation; substance abuse; disabilities)
- **Elaine Spencer-Carver, Ph.D., Director of Field** (practice, intimate partner violence, education and foster care, complex trauma, trauma impact on children and families, qualitative research)
- **Rhonda Weimer, M.S.W., Clinical Instructor** (psychopathology; practice; advanced group)

- Department Description
- Career Implications
- Program Description
- Field Practicum
- Admissions
- Student Advising
- Professional Status
- Master of Social Work
  - Student Learning Outcomes
  - Program Requirements
- Social Work Courses
Department Description
The School of Social Work offers a program of study leading to the master's in social work degree and a professional career in social work. Started in 1999, the M.S.W. program is the result of collaborative efforts by the University of Missouri System, UMKC and many social service agencies in the Kansas City metropolitan area. The M.S.W. program received initial accreditation in May, 2003 with reaffirmation of accreditation granted in 2007.

Mission of the School of Social Work
The mission of the School of Social Work is to produce advanced, urban generalist practitioners and leaders who are engaged in and guided by:

- Cultural proficiency
- Multi-systemic, multi-level collaboration with diverse populations and in varied settings
- Scholarship and research that benefits the community as mutually defined

Our mission will be accomplished through transformative education, scholarship, research, active community engagement, collaboration and continuing education.

Vision of the School of Social Work
UMKC School of Social Work will become a model urban, professional school recognized for its partnership with diverse, thriving communities that effectively collaborate to sustain a quality of life that is safe, economically secure, and socially just. The collaboration is built on the concepts of mutuality, basic human rights, respect, distributive justice, transformative learning and all-inclusive community participation.

Career Implications
Why consider an advanced degree in social work? Above all, the degree is flexible and versatile. For example, social workers are employed in public social service agencies, nonprofit organizations, medical settings, schools, community-based clinics and residential settings. The social work perspective looks not only at individual thoughts, feelings and actions, but also at the social environment as a primary arena for opportunities for change. On behalf of the people they serve, social workers have strong interests in social policy and advocacy, as well as social science research and policy and program evaluation.

- Social workers have the right education, experience, and dedication to help people help themselves whenever and wherever they need it.
- Social workers help people in all stages of life, from children to the elderly, and from all situations from adoption to hospice care.
- Professional social workers are the nation's largest providers of mental health services.
- According to the Bureau of Labor Statistics, the need for social workers is expected to grow twice as fast as any other occupation, especially in gerontology, home healthcare, substance abuse, private social service agencies, and school social work. (BLS, 2010)

Program Description
The program educates Advanced Generalist Social Work practitioners for professional responsibilities at various levels with complex and dynamic human service organizations. To accommodate working students' schedules, many classes are scheduled for late afternoons, evenings and weekends.

Faculty members and students co-create empowering learning environments through group discussions, role play, experiential occurrences and readings that enable transformational learning.
The practice-oriented curriculum is focused on advanced generalist social work practice in an urban environment. The curriculum provides: theoretically based understanding to assess diverse human behaviors in varied social environments; skills for operating in a multidisciplinary agency and community environment; research methods with practical application to agency practice; and approaches to working with culturally diverse populations.

The full-time, regular M.S.W. program offers a two-year, 60-credit curriculum combining classroom and field experience. For students who already have a B.S.W. degree, the full-time Advanced Standing program includes 36 credits during a spring or summer semester and one full-time year of coursework with a supervised field practicum. Students may attend the part-time program schedule, but must complete the M.S.W. in four years.

The foundation year curriculum includes coursework in generalist social work practice theory and skills, social policy, human behavior in the social environment, social work research and a generalist field practicum experience in a human service agency approximately 16 hours a week.

The concentration year curriculum focuses on advanced generalist methods within an urban context. The required curriculum includes courses in program evaluation, advance practice methods, and a capstone course (Integrative Seminar). Under the guidance of their academic advisor and in light of their career plans, students select four electives with a requirement of at least one elective in Integrative content area and at least one elective in Advanced Methodological approaches to Social Work practice. Finally, a second field practicum for approximately 16 hours a week provides advanced generalist experience and supervision.

**Field Practicum**
The practicum program uses agencies throughout the metropolitan area to offer experiences at both foundation and advanced levels. Students typically spend approximately two days in the field and are mentored by an M.S.W. practitioner employed by the agency. Students spend a required number of hours in face-to-face contact with clients; in agency meetings; in individual or group supervision; and in the community. In some cases, students who already are social service employees can arrange to complete one year of their field placements at their own agencies. Practicum can also be completed in a student's human service oriented work site, provided the Director of Field Education approves the same.

**Admissions**

**Student Advising**

Upon admission into the program, students must:

1. Read student handbook available on our website: cas/umkc.edu/socialwork
2. Attend student orientation in the Fall/Spring semester.
3. Schedule a meeting with their academic advisor during the academic year to develop a plan of study.
4. Report any changes they make to the plan of study to their advisor.
5. Full-time students must meet the Director of Field Education and complete a field application form to select and finalize field placement.
6. Part-time students must meet the Director of Field Education at the end of their first year in the program; fill out the field application form and finalize field placement before the beginning of their second year in the program.

**Professional Status**

After graduation, students are well prepared to accept a professional social work position with populations at-risk in a variety of human service, mental health, medical, or community settings.
Both Missouri and Kansas offer an exam to license specialist clinical social workers after two years of supervised practice in direct services. For social workers who plan to practice at this level, Kansas statutes require completion of graduate or continuing education courses in psychopathology and diagnostic skills. Students who are considering clinical licensure in Kansas are encouraged to take this course as an elective prior to graduation from the M.S.W. program.

Both Missouri and Kansas offer the following licenses for professional social workers:

- LBSW - Licensed Bachelor's Social Worker
- LMSW - Licensed Master Social Worker

Missouri also offers:

- LAMSW - Licensed Advanced Macro Social Worker

**Master of Social Work**

Upon graduating from the MSW foundation year curriculum, students will:

1. Advocate for clients’ access to the services of social work.
2. Practice personal reflection and self-correction to assure continual professional development.
3. Attend to professional roles and boundaries.
4. Demonstrate professional demeanor in behavior, appearance, and communication.
5. Engage in career-long learning.
6. Use supervision and consultation.
7. Recognize and manage personal values in a way that allows professional values to guide practice.
9. Tolerate ambiguity in resolving ethical conflicts.
10. Apply strategies of ethical reasoning to arrive at principled decisions.
11. Distinguish, appraise, and integrate multiple sources of knowledge, including research-based knowledge, and practice wisdom.
13. Demonstrate effective oral and written communication in working with individuals, families, groups, organizations, communities, and colleagues.
14. Recognize the extent to which a culture's structures and values may oppress, marginalize, alienate, or create or enhance privilege and power.
15. Gain sufficient self awareness to eliminate the influence of personal biases and values in working with diverse groups.
16. Recognize and communicate their understanding of the importance of difference in shaping life experiences.
17. View themselves as learners and engage those with whom they work as informants.
18. Understand the forms and mechanisms of oppression and discrimination.
19. Advocate for human rights and social and economic justice.
20. Engage in practices that advance social and economic justice.
21. Use practice experience to inform scientific inquiry.
22. Use research evidence to inform practice.
23. Utilize conceptual frameworks to guide the processes of assessment, intervention, and evaluation.
24. Critique and apply knowledge to understand person and environment.
25. Analyze, formulate, and advocate for policies that advance social well-being.
26. Collaborate with colleagues and clients for effective policy action.
27. Continuously discover, appraise, and attend to changing locales, populations, scientific and technological developments, and emerging societal trends to provide relevant services.
28. Provide leadership in promoting sustainable changes in service delivery and practice to improve the quality of social services.
29. Substantively and effectively prepare for action with individuals, families, groups, organizations, and communities.
30. Use empathy and other interpersonal skills to develop a mutually agreed-on focus of work and desired outcomes.
31. Collect, organize, and interpret client data.
32. Assess client strengths and limitations.
33. Develop mutually agreed-on intervention goals and objectives; and select appropriate intervention strategies.
34. Initiate actions to achieve organizational goals.
35. Implement prevention interventions that enhance client capacities.
36. Help clients resolve problems.
37. Negotiate, mediate, and advocate for clients; and facilitate transitions and endings.
38. Critically analyze, monitor, and evaluate interventions.

Upon graduating from the Concentration/Advance Standing curriculum, students will demonstrate the above behaviors in more complex, dynamic and multi-systemic content.

The following course of study is a typical schedule for a full-time student. A student must complete all foundation level courses before taking any electives and concentration level courses. The plan of study is subject to change.

**Regular Program  Foundation Level Courses**
SOC-WK 5510: Foundation Field Practicum I  
SOC-WK 5511: Foundation Field Practicum II  
SOC-WK 5532: Foundations of Social Work Practice I  
SOC-WK 5533: Foundations of Social Work Practice II  
SOC-WK 5530: Human Behavior: Individuals in the Social Environment  
SOC-WK 5531: Human Behavior: Families, Groups, Organizations, Communities  
SOC-WK 5534: Social Welfare Programs and Policies  
SOC-WK 5535: Social Welfare Policy Practice  
SOC-WK 5536: Social Work Research Methods  
SOC-WK 5537: Statistical Applications in Social Work Research  

**Concentration Courses**
SOC-WK 5512: Advanced Field Practicum I  
SOC-WK 5513: Advanced Field Practicum II  
SOC-WK 5540: Advanced Social Work Practice I  
SOC-WK 5541: Advanced Social Work Practice II  
SOC-WK 5550: Program Evaluation and Management  
SOC-WK 5579: Integrative Seminar of Advanced Generalist Practice  

**Integrative Content Electives: (Open only to Concentration Year Students):**
SOC-WK 5542: Aging Seminar  
SOC-WK 5544: Families, Communities and Child Welfare  
SOC-WK 5546: Mental Health and Substance Abuse in Social Work Practice  
SOC-WK 5568: School Social Work  
LAW 8815S: Leadership in Disability Studies: Multidisciplinary Approach  
(Course taken with Institute for Human Development students and approved by the School of Social Work as meeting the knowledge, values, and skills content requirements of a masters level social work elective course)  
SOC-WK 5563: Life Span Issues in Developmental Disabilities  
(Course taken with Institute for Human Development students and approved by the School of Social Work as meeting the knowledge, values, and skills content requirements of a masters-level social work elective course)
SOC-WK 5580: Aging in the Family
SOC-WK 5580: Grief and Loss in Social Work Practice
SOC-WK 5590: Readings and Investigations in Social Work

Advanced Methods Electives: (Open only to concentration year students)
SOC-WK 5560: Psychopathology: A Competency Based Assessment Model in Social Work Practice
SOC-WK 5562: Family Organizations and Development: Multi-systems Interventions
SOC-WK 5564: Advanced Group Interventions in Social Work Practice
SOC-WK 5565: Systemic Oppression and Social Justice Advocacy
SOC-WK 5566: Family and Community Violence
SOC-WK 5567: Collaborative Strengths-Based Practice: Multi-Systems Interventions
SOC-WK 5575: Advanced Community Practice
SOC-WK 5590: Readings and Investigations in Social Work Practice
PUB-ADM 5526: Politics of Administration
PUB-ADM 5548: Leadership for Public Service

Advanced Standing Program
Advanced standing students must enroll in the following required spring or summer courses:
SOC-WK 5538  Advanced Standing Seminar: Contemporary Trends in Social Work Practice (3)
SOC-WK 5539  Advanced Standing Seminar: Emerging Issues in Social Welfare Policy and Research (3)
Advanced standing students then complete concentration level courses.

The graduate social work program grants the M.S.W. degree when students have completed the following degree requirements:
1. 60 credit hours of class (48 hours) and field (12 hours) for regular program students.
2. 36 credit hours of class (30 hours) and field (6 hours) for advanced standing students.
3. To remain in good standing, students must maintain a cumulative GPA of 3.0.
4. Part-time students must complete the program within four years.
5. Students take four electives in the concentration year, with at least one course from Integrative Content electives, Substance Abuse, Children, Youth and Families and one course from Advanced Methods electives.

Note: For students with disabilities or special learning needs, the program works closely with the Office of Disabled Student Services regarding special accommodations.
Sociology
Department of Sociology
Haag Hall, Room 208
5120 Rockhill Road
(816) 235-1116
Fax: (816) 235-1117
hayesra@umkc.edu
http://cas.umkc.edu/soc

Mailing Address
University of Missouri-Kansas City
Department of Sociology
HH 208
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Linda Breytspraak

Professors Emeriti:
Thomas Carroll, Burton Halpert, Peter Singelmann

Olson Professor:
Philip G. Olson

Professors:
Miguel A. Carranza, Clovis Semmes

Associate Professors:
Linda M. Breytspraak (Department Chair, Director of Center on Aging Studies, and Director of graduate program in Gerontology), Jeffrey S. Bennett (principal IPh.D. Adviser), Marc Garcelon, Shannon Jackson (Coordinator, Anthropology program), Deborah Smith (principal Graduate Adviser, Sociology)

Assistant Professors:
Jessica Hardie, Jennifer Huberman, Sookhee Oh, Theresa Torres

Teaching Assistant Professors:
Ann Marie Wood, Ricardo Marte (Sociology/Psychology)

Joint Appointment:
Louise Arnold (School of Medicine)

Administrative Assistant:
Rita Hayes
Department Description

The Department of Sociology offers programs of study leading to:

- Bachelor of Arts in Sociology
- Master of Arts in Sociology

Program minors are available in:

- Sociology
- Anthropology
- Family Studies
- Gerontology

The mission of the department is to extend knowledge about the nature of social life. In the process of learning about social life, students will have opportunities to develop critical thinking and research skills and to apply classroom learning through experiences in community organizations and agencies. Department faculty members are committed to excellence in teaching and work to assist students in developing a foundation for moving into a career.
Department Activities

Academic Advising
Student academic advising is a continuous process in the department. Undergraduate advisers are available for consultation throughout the academic year. The department recommends that students check the program requirements in the department office before filing the Declaration of Major form. Undergraduate majors are encouraged to consult with the department to establish a tentative plan of study and to meet with a department advisor each semester. Students should leave their mail and e-mail addresses with the department office so that they can receive notifications concerning the class time table, new classes, and other departmental information of interest to majors.

Financial Assistance
Students can receive financial assistance through various campus scholarships, loan programs, grants and the work-study program. Students who are interested should contact the Financial Aid and Scholarships Office.

Sociology Club and Honor Society
The Sociology Club is open to all students majoring in Sociology as well as students who are interested in this field but have not yet declared a major. Club activities include service projects in the community, sponsorship of community speakers on campus, participation in local and regional professional meetings, and learning about internships and research opportunities. The department has a chapter of Alpha Kappa Delta, a national honorary society for Sociology students.

Special Student Award
A special award was established as a memorial to Edward Tomich, Ph.D., professor of Sociology from 1964 to 1976. On the recommendation of the department faculty, the Edward Tomich Award is given annually to a senior student majoring in Sociology who exemplifies an indomitable spirit; a commitment to the struggle for human welfare; an unquenchable thirst for knowledge and personal growth; an unwillingness to be cowed by authority or the superficialities of status; a readiness to ask the more difficult questions while being ready to accept the uncertainty of answers; and an appreciation of the value of theoretical knowledge about human interaction in everyday life.

Cooperative Programs
The department cooperates with several other programs on the campus by jointly listing courses at the undergraduate level. Students may benefit from combining one of these areas of study with their major:

- Black Studies
- Family Studies
- Gerontology
- Honors program
- Urban Studies
- Women's and Gender Studies
Center on Aging Studies

Haag Hall, Room 208
(816) 235-1744
http://cas.umkc.edu/AgingStudies/

The Center on Aging Studies, which is part of the College of Arts and Sciences, is an interdisciplinary unit concerned with education, research, resource development and community activities designed to understand and improve living conditions of the older population. Among the areas of research and training are health care systems and health promotion, caregiving, grandparents raising grandchildren, volunteerism, intergenerational relationships, Social Security, social identity and self development, and aging in other cultures. The Center seeks to bridge the gap between knowledge and its application in the development of services and policies.

The Center, in conjunction with the College of Arts and Sciences Continuing Education Division, administers an undergraduate minor and a graduate certificate program in Gerontology. Students interested in this area of study should contact the Center on Aging Studies at (816) 235-1744.

The Center on Aging Studies has built on its location in the heartland with emphasis on issues of aging in rural and urban areas. The Center works closely with the University of Missouri Extension throughout the state.

Career Implications
The B.A. curriculum in Sociology is designed to prepare students for a variety of career paths, including:

- Future graduate work in Sociology in order to become a professor, researcher, or applied Sociologist.
- Entry-level positions throughout the business, human services, and government sectors. Employers look for people with the skills that an undergraduate education in Sociology provides.
- Careers in journalism, politics, public relations, business, or public administration—fields that involve the kind of investigative skills and ability to work with diverse groups that Sociologists learn.
- Professions such as law, education, medicine, social work, and counseling—fields that all draw on the rich fund of knowledge from Sociology.

Admission Requirements
High school students are encouraged to take a general college preparatory curriculum. Additional courses in Mathematics, English, foreign languages and the social sciences, such as Economics, Anthropology, Psychology and Sociology are recommended. Students planning to transfer from a community college are encouraged to take at least 6 credit hours of Sociology (including introductory Sociology), college Algebra and English composition. A maximum of 12 hours of transfer credits, including introductory Sociology, can be counted toward satisfaction of the major field requirements.
Career Implications of the M.A. in Sociology

Some M.A. recipients go directly into teaching at the community college or high school level. Others enter the corporate, nonprofit and government worlds in areas such as directors of research, policy analysis, consulting, human resource management and program management. Some may become a director in a social service agency. For outstanding students, the M.A. is preparation for doctoral level studies.

Master of Arts in Sociology

Students who earn a Master of Arts in Sociology should be able to:

- Examine the role and relevance of the sociological perspective for graduate students who will have the knowledge and skills necessary to pursue either a Ph.D. in a related field or to engage in enhanced study, research, and/or application of sociological method and theory.
- Reflect on contemporary issues and controversies in Sociology, and advance sociological research through their own creative engagement with social theories and methods.
- Explore the theoretical and methodological perspectives in a chosen specialty area to elaborate the historical development and contemporary manifestation of social inequalities.
- Advance critical research and writing skills for professional development and civic engagement such that graduate students will deepen their professional commitment to community.

Regular admission to the Sociology Master's program typically requires a baccalaureate degree from an accredited college or university in Sociology (or related discipline such as Political Science, Anthropology, or History) with a minimum overall undergraduate GPA of 2.75, and a GPA of 3.0 in both (a) the junior and senior years and (b) Sociology coursework.

Students who do not meet these above requirements may be accepted conditionally to the program. For students to gain full admission to the program, they must first demonstrate aptitude for coursework in Sociology by passing three critical undergraduate courses with at least a B- (80%): Introduction to Sociology, Social Theory, Research Methods, and Statistics (equivalent to SOCIOL 101, SOCIOL 361, SOCIOL 362 and SOCIOL 363). We strongly advise applicants to have completed at least two (preferably all four) of these courses prior to applying to the program.

Applicants for the fall semester admission must have all materials submitted by March 1, or February 15 to be considered for any available graduate teaching or research assistantships. Applicants for the spring semester must submit all materials by November 1. A complete application packet includes the application fee, as required, and these materials submitted to the university's Office of Admissions:

- The UMKC general application form, available at http://www.umkc.edu/admissions
- All undergraduate transcripts;
- Three letters of recommendation, preferably from former instructors;
- One undergraduate written assignment that best illustrates your ability to think analytically; and
- A two to three page statement outlining your goals for graduate study, the nature of your interest in Sociology, and at least one current UMKC faculty member whose areas of expertise match your interests, any past experiences that are relevant, as well as your future plans. (This is in place of completing the statement of purpose section on the UMKC application.)

We strongly encourage the student to contact directly the principal graduate adviser or other appropriate faculty member prior to or during the admission process.
This program requires 30 credit hours of coursework. The following core courses (15 credits) are required of all students and should be taken early in the program:

**Required Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 5501</td>
<td>Social Theory I</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 5502</td>
<td>Social Theory II</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 5510</td>
<td>Sociological Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 5511</td>
<td>Sociological Research Methods II</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 5516</td>
<td>Intermediate Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to these required courses, students must complete an additional 15 credit hours, generally fulfilled by taking graduate-level courses from the Sociology curriculum. Specifically, these 15 hours beyond the core courses may include up to 6 credit hours of thesis research, up to 3 credit hours of independent/directed studies, up to 6 credit hours of 400-level coursework in the department, and/or up to 6 credit hours of graduate coursework from other disciplines with the approval of the Sociology principal graduate advisor. In no case can more than 3 one-credit courses be part of the program of study.

Students are expected to earn a GPA of 3.0 or above in the core courses and an overall GPA of 3.0. Those who do not meet this requirement will be subject to review by the departmental graduate standards committee. Students who do not perform at a satisfactory level during their time in the program may be reviewed by the Graduate Standards Committee and subsequently can be placed on probation and/or terminated from the program.

Students must complete at least 3 credit hours of graduate work each semester (fall and spring) for the first 2 years of the program and at least 1 credit hour each subsequent semester (fall and spring) to maintain their standing in the program.

By the midpoint of the program, a student should have selected at least 3 faculty members to serve on the master's committee and filed a program of study.

Students may complete the M.A. requirements in Sociology through either: (a) the thesis option, or (b) the comprehensive exam option. We strongly advise students to pursue the thesis option as this provides the greatest flexibility for future study and employment choices.

**Thesis Option**

For this option, 6 credits of the 30 required hours are used for the completion of the master's thesis. An oral defense of the thesis is required. Students who aspire to further study at the doctoral level should select the thesis option.

**Comprehensive Exam Option**

This option requires 30 hours of graduate coursework. Near completion of all coursework, students choosing this option must pass a comprehensive exam comprised of 3 parts: (1) sociological theory; (2) research methods and statistics; and (3) a substantive area of the student's choice in consultation with the principal graduate adviser or the student's committee chair. If a student is unable to pass any component of the comprehensive exam on a second try, the graduate standards committee will evaluate the situation and decide if circumstances warrant a third attempt. Under no circumstances, will a student be given more than three attempts at passing the comprehensive exam.
Minors in Sociology and Anthropology
Students are urged to confer with a department adviser to plan a minor. To declare a minor, students must file a completed declaration form with a current copy of their transcript.

Minor in Sociology
Undergraduate students can complete an 18-credit minor in Sociology. Course work must include the introductory course, SOCIOL 101, and at least 9 credits at the upper-division (300 or 400) level. Where courses are cross-listed in the major and minor, only 3 credit hours can be applied to both. A minimum grade of C- in SOCIOL 101 and a minimum overall GPA of 2.0 in the minor must be attained. No more than 6 of the 18 credits may be transferred from another institution.

Minor in Anthropology
Anthropology is a holistic and cross-culturally comparative science that is uniquely qualified to prepare students for multicultural work and social environments in the U.S. and abroad. Careers for Anthropologists, however, lie in all areas of human interaction. Anthropologists are especially attractive to companies and government agencies that work with and for national minorities and in foreign countries.
Students will be introduced to the subject and methods of cultural anthropology, examining its foundations and current trends in theory and applications. Students earning a minor in Anthropology take 6 credit hours of required coursework (ANTHRO 103, Introduction to Cultural Anthropology) and 15 credit hours of elective courses, which result in a total of 18 hours. Electives can be planned around an area of specialization. At least 9 of the 18 credit hours must be in courses at the 300- or 400-level. Where courses are cross-listed in the major and minor, only 6 credit hours can be applied to both. Students should consult with the program coordinator to select the appropriate courses. A minimum grade of C in ANTHRO 103 and a minimum overall GPA of 2.0 in the minor must be attained. No more than 6 of the 18 credits may be transferred from another institution.
Bachelor of Arts: Sociology

Graduates of the Bachelor of Arts in Sociology degree program will be able to:

- **Examine** the role and relevance of the sociological perspective for contemporary social life. Thus students will gain knowledge of the fundamentals in Sociology, such as the foundations of human practice, belief, and organization.

- **Reflect on** contemporary issues and controversies in the academic discipline of Sociology. Thus students will be able to examine issues of inequality, cultural difference, and social stratification from a comparative perspective, applying sociological principles and concepts to their own lives.

- **Explore** the basic theoretical and methodological perspectives, both in the social sciences and in a chosen specialty area. Thus students will have the capacity to critically evaluate and engage contemporary issues, trends in theory, and instruments of social analysis.

- **Advance** the critical research, thinking, and writing skills that are integral to professional development and civic engagement. Thus students will apply the fundamentals of sociology to both experience and an enhanced interest in community engagement.

The bachelor of arts degree in sociology requires a total of 30 credit hours in addition to the general requirements for a degree in the College of Arts and Sciences.

For students selecting the Sociology major, required courses are the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 101</td>
<td>Sociology: An Introduction</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 103</td>
<td>Intro. to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 361</td>
<td>Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 362</td>
<td>Methods of Sociological Research</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 363*</td>
<td>Intro. to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 404WI**</td>
<td>Sociology Capstone: Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

*MATH 235 is not a substitute for SOCIOL 363.

**All majors are required to take a writing intensive course within the Department of Sociology (SOCIOL 404WI fulfills this requirement).

Other degree requirements include:

1. A 2.0 grade-point average in the 30 hours credited toward the major.
2. A minimum grade of C- in all required courses (SOCIOL 101, ANTHRO 103, SOCIOL 361, SOCIOL 362, SOCIOL 363, and SOCIOL 404WI).
3. Completion of the general degree requirements of the College of Arts and Sciences with a minimum GPA of 2.0.
4. No more than three 1-credit courses of Special Topics in Sociology (SOCIOL 300__) may be used to fulfill Sociology elective requirements.
5. Students may apply a maximum of 12 credit hours of Sociology courses from other schools toward the major (introductory sociology, cultural anthropology, and/or sociology electives).

Majors may develop a focus within the major in one of the areas outlined below. These focus areas are designed to aid the student in selecting a plan of study related to personal or career interests.

UMKC 2012-13  Arts and Sciences, College of
Sexualities, Families, and the Life Course:

- SOCIOL 211 Social And Psychological Development Through The Life Cycle
- SOCIOL 310R Families And The Life Course
- SOCIOL 316 Sociology Of Death And Dying
- SOCIOL 318 Sociology of the Aging Woman
- SOCIOL 374 Anthropology of Childhood
- SOCIOL 410R Aging In Contemporary Society
- SOCIOL 411 Sociology Of Human Sexuality
- SOCIOL 416 Aging And Developmental Disabilities
- SOCIOL 417 Practicum In Aging And Developmental Disabilities
- SOCIOL 440R Sociology Of Medicine

Inequalities: Race, Class, Gender and Nations:

- SOCIOL 302 Social Stratification
- SOCIOL 303CW Cluster Course: Introduction To Women's Studies
- SOCIOL 313R Sociology of Gender
- SOCIOL 322 Race And Ethnic Relations
- SOCIOL 324 Diversity and You
- SOCIOL 348 Latin American Immigrants and Refugees in the U.S.
- SOCIOL 433 Immigration and the City
- SOCIOL 441 Globalization and Development

Community Engagement:

- SOCIOL 310R Families And The Life Course
- SOCIOL 317 Policies Of Drug Use And Control
- SOCIOL 319 Theoretical Criminology
- SOCIOL 332 Sociology Of Political Life
- SOCIOL 335R Introduction To Social Work: Principles And Practice
- SOCIOL 336 Society And Community Service
- SOCIOL 337 Community Development In Urban America
- SOCIOL 431 Social Organization Of The City

Cultural Anthropology:

- ANTHRO 103 Introduction To Cultural Anthropology
- ANTHRO 205 The Social Life of Things
- ANTHRO 302 Social Stratification
- ANTHRO 305 Language and Culture
- ANTHRO 306 Culture, Emotion and Identity
- ANTHRO 314 Anthropology of Gender
- ANTHRO 328 Body and Society
- ANTHRO 331 Urban Anthropology
- ANTHRO 347 Anthropology of Religion
Several courses at the 300 and 400 level are set aside for individual study--either as readings or research courses. The readings course (SOCIOL 397/ANTHRO 397) has variable credit from 1 to 3 credit hours, and individual contracts are made with faculty members prior to a student selecting the course. The individual research course, SOCIOL 398, has variable credit from 1 to 6 credit hours, and individual contracts must be made with faculty prior to enrolling in the course. The department also offers internship courses (SOCIOL 390R and SOCIOL 391), which require considerable work outside the classroom, often in an agency setting. Students are restricted to 6 credit hours of any combination of field experience, directed individual study and research toward the 30 hours required in the sociology major.
Theatre
Department of Theatre

Mailing Address
5319 Holmes Street
(816) 235-2702
Fax: (816) 235-6552
theatre@umkc.edu
http://cas.umkc.edu/theatre

- Department Description
- Undergraduate Programs
  - Bachelor of Arts: Theatre
    - Student Learning Outcomes
    - Program Requirements
  - Minor in Theatre
- Undergraduate Courses in Theatre
- Graduate Programs
- Graduate Assistantships
  - Master of Arts: Theatre
    - Student Learning Outcomes
    - Program Requirements
  - Master of Fine Arts: Acting and Directing
    - Student Learning Outcomes
    - Program Requirements
  - Master of Fine Arts: Design and Technology
    - Student Learning Outcomes
    - Program Requirements
- Graduate Courses in Theatre

Department Description
The Department of Theatre offers the following degrees:

Bachelor of Arts,

Master of Arts centered in theatre history and dramatic literature or playwriting, either of which may include dramaturgy,

Master of Fine Arts in acting or design and technology.

The department has a unique mandate. It is the only department in the state university system of Missouri empowered to grant the M.F.A. degree in theatre, the terminal degree for candidates preparing for a career in the professional theatre. Accordingly, the main thrust of the department is its master of fine arts programs that prepare professional actors, designers and technicians for the regional repertory and commercial production companies of the United States. Training in the master of fine arts programs is performance and production oriented. The unique arrangement by which the Department of Theatre and
the Kansas City Repertory Theatre coexist, interact and support each other while using the same facilities provides ideal opportunities for candidates.

A training ensemble of experienced professionals is maintained to teach classes and address candidates' needs. In addition to the regular faculty, guest directors and visiting teachers are brought in from the professional world outside and from the ranks of the Kansas City Repertory Theatre to enhance training opportunities. Accreditation is by the National Association of Schools of Theatre. The Department is also a member of the University/Resident Theatre Association.

Assistantships
Graduate assistantships are available in the following areas: acting, costume, lighting, stage management, scene shop carpentry, scene painting, sound, property construction, house management, technical direction, publicity and departmental assistance with THEATRE 130 Foundations of Fine Arts: Theatre.

Master of Arts in Theatre
Upon completion of the M.A. in Theatre, students will:
- Be well-read, appreciative of, and able to discuss a broad sampling of world dramatic literature
- Be able to converse about and teach a survey of theatre history, as well as some specialized knowledge of a chosen era, aesthetic movement or artist in a historical-cultural context
- Demonstrate research skills that will make it possible to pursue the Ph.D.
- Communicate ideas in clear and correct writing and spoken English
- Be familiar enough with various components of the art of the stage to be able to interact with theatre professionals.

The M.A. degree in theatre is a research-oriented, two-year degree that will prepare students for admission to Ph.D. programs. Students may plan their programs centered on theatre history and dramatic literature or on playwriting, either one with an optional component in dramaturgy. Opportunities exist for M.A. students to serve as dramaturg or assistant to the director of academic and professional productions. A thesis is required to complete the degree. M.A. students are subject to the General Graduate Academic Requirements of the University for graduate study.

Master of Fine Arts in Acting
Students graduating with an M.F.A. in Acting from UMKC should be expected to demonstrate the following:
- A detailed understanding of their individual processes as actors through which they find the physical, vocal, emotional and intellectual availability to meet the requirements of a given role. This shall include but not be limited to:
  - A working knowledge of the human voice as a primary means of communication.
  - A working knowledge of the human body as a primary means of communication.
  - A working knowledge of the human psyche as a primary means of motivation.
  - A working knowledge of research methods through which to gain an understanding of the circumstantial life of a character.
- An experiential knowledge of theatrical performance genres from classical roots through contemporary theatre.
- A strong familiarity with a wide range of dramatic literature.
- The ability to work with directors of varying working processes and communication styles.
- The ability to work in collaboration with an ensemble of artists.
The acting program is a three-year, minimum 60-credit-hour professional actor-training program interacting with the Kansas City Repertory Theatre, a professional Equity LORT B Theatre. M.F.A. students are subject to the General Graduate Academic Requirements of the University for graduate study.

**First Year**
The first year of training is a highly disciplined, process-oriented period of study including: a morning group warm-up; collaboration class which integrates students and faculty from each area of study; intensive breath and vocal production; basic speech work; introductory dialect work; text analysis; individualized fitness and nutritional programs, alignment and self-use process; physical approaches to characterization including physical isolations and effort shape; neutral, extreme and character mask work; ballroom dance. We pursue intensive exploration of creative technique, based on Constantin Stanislavski, Stella Adler and Morris Carnovsky's principles of theatrical truth; building a character; and ensemble play. Performance work includes the first-year "Creativity Project", that usually is inspired by classical material. Other projects may center around social issues of the day or character searches.

**Second Year**
In the second year of training the student actor continues with a morning warm-up; collaboration class; Fitzmaurice voice production along with continued speech and dialect work and a focus on heightened text and extended voice; private and ensemble singing tutorials; stage combat (unarmed, rapier, dagger, broad sword and quarter staff); subtle energy work; period-style movement including social convention and dance; Commedia dell' arte characterization, mask work and personal clown; continued work on acting Shakespeare; intensive work on Moliere verse text integrated with the period-style movement and comic technique; restoration or other heightened language text; and application of the actor's process to audition technique and contemporary text. Essential Meisner work is folded into exploration of creative technique. Second-year actors begin public performance work with guest and faculty directors on new, contemporary and period plays chosen specifically for the training. Occasionally, roles at the Kansas City Repertory Theatre, and other professional theatres in town, are available for second-year actors.

**Third Year**
Third year actors continue to apply their craft to challenging studies in many styles of plays; they deepen their understanding and application of Meisner technique and work on ongoing solo and ensemble exploration in personal clown; foil and saber fencing; singing; tutorials in speech and movement as well as voiceover workshops and acting for the camera. Public performance work intensifies with specific productions chosen to challenge the actor's art within the training program. Actors also, when applicable, audition for Kansas City Repertory productions and are cast, when appropriate, in roles or as understudies. Actors also audition and perform, when appropriate, in other Kansas City professional Equity theatres. In May, the actors are showcased in New York, as part of the New League Showcase sponsored by the Alliance for the Development of Theatre Artists, Inc., and sometimes showcased in Chicago and/or Los Angeles. All students who are considered "in good standing" participate in showcase.

In addition to being expected to maintain at least a 3.0 grade-point average, all M.F.A. acting candidates will be evaluated by the performance faculty at the end of each semester to determine whether they have shown satisfactory progress to warrant continuation in the program.
Master of Fine Arts - Design and Technology

Students graduating with an M.F.A. in Design and Technology from UMKC will have a detailed understanding of their individual processes as designers through:

- **Design** - mastering interpretation, collaboration and idea development; developing the graphic tools needed to superlatively communicate design ideas visually.
- **Technical Skills** - mastering the tools of production, and the processes associated within each design/technology discipline.
- **History** - mastering research, text analysis and dramatic history.
- **Production** - mastering the artistic merging of design, history and technical skills through the experiences of numerous and varied productions.
- **Entrepreneurship** - mastering the business of the profession and career growth.

Upon completion of the course of study, graduates will have created portfolios of such quality as to effectively introduce themselves to the profession as artists ready for assignments.

This is a three-year program requiring a minimum of 60 credit hours.

Students majoring in design and technology may choose to specialize in:

- **Design** (scenic design, costume design and technology, lighting design, sound design).
- **Technical direction**.
- **Stage management**.

**Design Emphasis**

Those choosing a design emphasis will be prepared to compete for United Scenic Artist Local 829 membership as scenic designers, lighting designers, costume designers or sound designers. They also will be prepared to design in professional theatre centers and in major universities and colleges.

**Technology Emphasis**

**Technical Direction**

Candidates specializing in technology will be trained to compete for jobs as technical directors or assistant technical directors and other supervisory technical positions, or other entertainment-business-related positions.

**Stage Management**

Stage management candidates serve as assistant stage managers the first semester or first year, as stage managers the second year, and serve a residency in the last semester. They also work as production assistants for the Kansas City Repertory Theatre shows. Candidates in stage management are trained to compete for jobs as Actors' Equity stage managers and take classes on the Actors' Equity LORT rule book.

**General Requirements**

The portfolio to be presented for admission should include:

1. Artistic renderings.
2. Drafted materials.
3. Photographs and slides.
4. Resume and references.

Only students who have demonstrated satisfactory progress in required skills and professional discipline during the first year (or sooner at faculty discretion) will be invited by the faculty to continue the program. During the second year, the design and technology students will concentrate on areas of interest, choosing advanced courses and working in the appropriate production areas. Third-year residency allows students to continue to emphasize design or technology coursework while undertaking major design or technology projects with productions in the Department of Theatre, the Kansas City Repertory Theatre or
other professional environments. The concluding requirements of the M.F.A. degree for the design and technology candidate will be classroom projects, produced work and final presentations of portfolios. M.F.A. students are subject to the General Graduate Academic Requirements of the University for graduate study.

**Bachelor of Arts in Theatre**

**Student Learning Outcomes**
Upon completion of the B.A. in Theatre, a student will have:
- demonstrated an ability to communicate ideas in clear and correct writing.
- studied a sampling of world dramatic literature.
- experienced an overview of the working theatre: in performance, design, direction, and technical production.
- learned the basic skills that will make it possible to pursue an advanced degree in performance, design, technical production or theatre history.
- assimilated the etiquette and ethics of interacting with others in the theatrical profession.

The main objective of the B.A. in Theatre is to give students a broad education. The degree requirements for the B.A. in Theatre furnish our majors with a well-rounded education in all aspects of theatre. While the program is broad in its scope, it allows students the opportunity to develop specific areas of interest by choosing from one of three tracks.

**General THEATRE Track**
The general Theatre track is for students who want the flexibility to explore all areas of theatre. They can choose from a wide variety of courses including stage management, design, performance and playwriting.

**Performance Track**
Students interested in performance may select the performance track. Courses are geared toward students who want a professional career as an actor or want to prepare for placement in a top graduate program. Students receive instruction in voice, movement, acting, Shakespeare and specialty areas such as stage combat or physical theatre.

**Design/Tech Track**
The design/tech track offers students interested in areas of technical theatre and design the opportunity to develop the skills necessary to work in the professional theatre or attend a top graduate school. Within this track students might choose to emphasize a particular area of design. Students can focus their studies in scenic design, costume design, lighting design, sound design or stage management.

**All Tracks**
Production experience as well as internship opportunities give undergraduate theatre majors the chance to apply classroom theory to practical situations. Taking part as a crewmember, designer or performer in one of the departmental productions is an integral part of the theatre experience at UMKC. In a typical year there are two undergraduate productions in addition to as many as seven department productions, providing plenty of opportunity. The department also has relationships with many professional theatres. Internships and job opportunities frequently occur from these relationships.

**Departmental Requirements - 48 plus 1-8 hours of Thea 403 (enroll each semester)**

**Required Courses - 30 plus 1-8 hours of Thea 403 (enroll each semester)**
- THEATRE 113 Introduction to Technical Production
- THEATRE 130 Foundations of Fine Arts: Theatre (for majors section)
- THEATRE 210 Introduction to Design for the Theatre
- THEATRE 350 Theatre History I
- THEATRE 351WI Theatre History II (Writing Intensive)
- THEATRE 378 Stage Management I
- THEATRE 403 Theatre Company and Production (every semester enrolled)
- THEATRE 415 Beginning Directing (Capstone)
- THEATRE 497 Theatre Outreach / Internship

**Track Requirements - 18 hours**

Undergraduates can choose from the following tracks:
- General Theatre
- Performance
- Design/Technology

Contact the Theatre Department for track requirements.

**Minimum Grade Requirements**
Students must get a grade of C (-) or above in required courses in the major.

**Non-Departmental Requirements - six total hours**
Six credits total in music and art (three hours each):
- ART-HIST 110
- CONSVTY 120 - Music Appreciation

**Theatre Minor**
A minor in theatre consists of a minimum of 18 credit hours, including THEATRE 130**, and 15 additional hours approved by the theatre academic adviser. A minimum of nine hours must be completed at the 300-400 level.

**Theatre minors must enroll in the "for majors" section of THEATRE 130 offered in the Spring semester. For a class permission to enroll, contact academic advisor Cindy Stofiel, 816-235-6683, stofielc@umkc.edu, 120 PAC.**
Urban Studies
Katz Hall Room 106
5005 Rockhill Road, Room 106
(816) 235-5764
Fax: (816) 235-5226
wagnerjaco@umkc.edu

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Urban Studies
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5100 Rockhill Road
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Program Director:
Jacob A. Wagner, Ph.D.

Participating Architecture, Urban Planning and Design Faculty:
Michael Frisch, Sungyop Kim, Jacob A. Wagner

Participating Public Affairs Faculty:
Nicholas C. Peroff, David O. Renz, Jered Carr, Brent Never, Scott Helm

Participating Criminal Justice and Criminology Faculty:
Ken Novak, Kristi Holsinger

Participating Economics and Center for Economic Information Faculty:
Douglas Bowles, Peter Eaton, Mathew Forstater, Erik Olsen

Participating Geosciences Faculty:
Caroline Davies, Steven Driever, Wei Ji

Participating History Faculty:
Pellom McDaniels

Political Science Faculty:

Participating Sociology Faculty:
Linda Breytspraak, Shannon Jackson, Sookhee Oh, Teresa Torres, Clovis Semmes

- Program Description
- Bachelor of Arts: Urban Studies
  - Student Learning Outcomes
  - Program Requirements
- B.A. Urban Studies - M.P.A. Program
- Urban Studies Courses
Program Description
The urban studies major is for students who desire the breadth and depth of interdisciplinary study in preparation for advanced study in neighborhood and community development, community organization and social services, and urban management and public policy. Interested students should contact the urban studies director for advising no later than the beginning of their junior year.

The urban studies major is also for students who plan to enter specific careers in public service upon completion of the baccalaureate degree. The program is intended to provide a solid base for graduate study and the knowledge and experience necessary for employment in the public sector.

The urban studies major requires an internship comprising field placement in an agency of city, county, state or federal government; in the private sector; or in private nonprofit organizations.

B.A. (Urban Studies) - M.P.A. Program
This program allows Urban Studies majors to complete a B.A. in Urban Studies in The College of Arts and Sciences and a master's in public administration in the Henry W. Bloch School of Business and Public Administration in five years. The program allows students to take M.P.A. courses to satisfy Urban Studies and M.P.A. requirements, which reduces the number of courses needed to complete both degrees. Students interested in this option should first contact the Director of Urban Studies at (816) 235-2971 during the final semester of the junior year or early in the first semester of the senior year.

Bachelor of Arts: Urban Studies

Students graduating with a baccalaureate degree in this field will:

- Students appreciate how gender, ethnicity, and race play important roles in understanding the city. They will be exposed to the broader public through internships in the community.
- Students will be able to demonstrate knowledge of how local, regional, and state governments and related institutions interact. They will understand how the urban economy is structured in interrelated sectors that influence each other locally and interact with sectors beyond the local city. They will understand how to interpret demographic patterns at various scales, from the city block to the metropolitan area.
- Either at least qualitatively or quantitatively students will demonstrate the ability of critical thinking about urban space.

It is recommended that students planning an Urban Studies major take ENV-SCI 110R, ENV-SCI 210, or GEOLOGY 220 to satisfy part of the natural sciences area general degree requirements of the College. ENV-DSN 110 should be elected as one of the humanities area courses. In preparation for the core requirements of the urban studies major, the student should take ECON 201, SOCIOL 101, GEOG 105 and PSYCH 210.

Requirements (48 hours)
Core Courses (24 hours)
All Urban Studies majors are required to take the following core requirements:

- URBAN ST 101 Introduction to Urban Studies
- GEOG 309 Urban Geography
- STAT 236 Applied Statistics for Public Administration
  -or-
  SOCIOL 363 Introduction to Statistics in Sociology/Criminal Justice
- UPD 260 History of Urban Planning
  -or-
  HISTORY 300B Special Studies: Kansas City History
- POL-SCI 438 Urban Politics
  -or-
  POL-SCI 328 State and Local Government
  -or-
  ECON 336 Kansas City Economy
  -or-
  ECON 458 Urban Economics
- SOCIOL 362 Methods of Sociological Research
  -or-
  UPD 300 Quantitative Planning Methods and Techniques
- ECON 314 Race, Class and Gender: Theory, History and Policy
  -or-
  SOCIOL 322 Race and Ethnic Relations
  -or-
  POL-SCI 310 African Americans and the Political Process
- URBAN ST 499WI Urban Studies Seminar

**Concentration (18 hours)**

In addition to the core requirements, 18 hours must be taken in an area of concentration:

- Community Development and Housing
- Community Organization and Social Services
- Urban Policy/Management

In consultation with an adviser, selected by the student or designated by the program director, students are expected to develop a program (reflecting interest and applicability to career goals) in one area of concentration: a required course and five electives from those listed under the concentration chosen. Students may not double count any core courses toward the 18 hours.

**Community Development and Housing Concentration**

**Required Course:**
- URBAN ST 340 Neighborhood and Community Development
  -or-
  UPD 340 Neighborhood and Community Development

**Electives (choose five):**
- ART-HIST 353 Design & Form of KC
- ENV-DSN 110 The Meaning of Architecture
- ENV-DSN 201 Environmental Design Studio I
- ENV-DSN 202 Environmental Design Studio II
- ECON 336 Kansas City Economy
- GEOG 203 Intro to Geographic Information Systems (GIS)
- GEOG 311 Economic Geography
- GEOG 317 Cartography
- GEOG 333 Geography Elements of Urban Planning
- GEOG 401 Advanced Geographic Information Science (GIS)
- GEOG 437 Population Geography
- SOCIOL 331 Urban Anthropology
- SOCIOL 337 Community Development in Urban America
- SOCIOL 431 Social Organization of the City
- UPD 203 GIS for Urban Planning
- UPD 260 History of Planning and Urban Design
- UPD 280 Land Use Planning
- UPD 310 Planning & Design Studio I
- UPD 312 Planning & Design Studio II
- UPD 320 Planning Theory
- UPD 400 Advanced GIS for Urban Planning
- UPD 420 Transportation Planning
- UPD 430 Planning for Historic Preservation
- UPD 450 Planning Law & Practices
- UPD 472 Urban Redevelopment

Community Organization and Social Services Concentration

Required Course:
- ANTHRO 331 Urban Anthropology
- or-
- SOCIOL 331 Urban Anthropology

Electives (choose five):
- CJC 101 Introduction to Criminal Justice
- CJC 317 Policies of Drug Use & Control
- ECON 314 Race, Class, and Gender: Theory, History, and Policy
- GEOG 203 Intro to Geographic Information Systems (GIS)
- GEOG 437 Population Geography
- HISTORY 353 Immigrants and Immigration in American History
- PSYCH 406P Introduction to Developmental Disabilities
- PSYCH 407P Developmental Disabilities and Community Life
- SOCIOL 211 Social & Psychological Development
- SOCIOL 302 Social Stratification
- SOCIOL 322 Race and Ethnic Relations
- SOCIOL 331 Urban Anthropology
- SOCIOL 337 Community Development in Urban America
- SOCIOL 348 Latin American Immigrants and Refugees in the U.S.
- SOCIOL 431 Social Organization of the City
- SOCIOL 433 Immigration and the City

SOCIOL 434 Spatial Thinking in Social Sciences Urban Policy/Management Concentration

Required Course
- PUB-ADM 415 Issues in Public Administration

Electives (choose five):
- ECON 435 Public Finance
- ECON 437 State and Local Government Finance
- ECON 450R Regional Economics
- GEOG 203 Introduction to Geographic Information Systems (GIS)
- GEOG 311 Economic Geography
- GEOG 333 Geographic Elements of Urban Planning
- GEOG 437 Population Geography
- PHILOS 450WI Ethics and Government
- POL-SCI 314 Politics of Kansas City Metro
- POL-SCI 328 State and Local Government
• PSYCH 403 Environmental Psychology
• PUB-ADM 310 Introduction to Public Administration
• PUB-ADM 497 Urban Environmental Policy
• UPD 203 GIS for Urban Planning
• UPD 280 Land Use Planning
• UPD 420 Transportation Planning
• UPD 432 Urban Environmental Planning and Design
• UPD 450 Planning Law and Practice

Internship (6 hours)
In developing internships, students should first contact the urban studies director. The student is expected to participate in work activities in a community organization and receive instruction from agency staff. For each three hours of internship the student must spend 120 hours on site. In addition, the student is evaluated academically. The internship may be repeated up to a maximum of three semesters and should be taken as URBAN ST 495 Urban Studies Internship. Other internship courses may satisfy this requirement with approval of the adviser.

Summary
During the first 60 hours of coursework, students are advised to fulfill prerequisites for core courses and for required courses in the urban studies concentration they choose. At the same time, students should fulfill general graduation requirements, where possible, through completion of courses listed under General Degree Requirements in Arts and Sciences. When prerequisites and general requirements have been satisfied, students must complete for the urban studies major:
• Core course requirements: 24 hours
• Concentration requirements: 18 hours
• Internship: 6 hours

Total hours required for the major in urban studies: 48

Minor in Urban Studies
Total Hours Required: 18 Minimum of 9 hours from UMKC (not transfer credits)
Courses selected to meet minor requirements cannot be double-counted. Academic Minors are optional. They will be noted on the academic transcript.

Required Courses
__ URBAN ST 101 : Intro to Urban Studies (also listed as UPD 101 or BLKS 101) OR
__ GEOG 309: Urban Geography OR
__ SOCIOL 431: Social Organization of the City

Urban Research Methods (choose one course):
__ UPD 203: GIS for Urban Planning
__ UPD 260: History of Planning and Urban Design
__ UPD 300: Quantitative Planning Methods
__ PUB-ADM 410: Research Methods
__ GEOG 203: Intro to Geog. Inform. Systems (GIS)
__ SOCIOL 362: Methods of Sociological Research
__ SOCIOL 434: Spatial Thinking in Social Science
Urban Political Economy (choose one course):
__POL-SCI 438: Urban Politics
__POL-SCI 328: State and Local Government
__ECON 336: Kansas City Economy
__ECON 458: Urban Economics
__POL-SCI 310: African Americans & the Political Process
__ECON 395: The Economics of Poverty
__BLKS 302: Conceptual and Theoretical Foundations in African American Studies
__GEOG 311: Economic Geography

Diversity and the City (choose one course):
__ECON 314: Race, Class, and Gender
__ANTHRO 331/SOICIL 331: Urban Anthropology
__POL-SCI 424: Urban Politics and Community Power
__ANTHRO 322/SOICIL 322: Race and Ethnic Relations
__ANTHRO 302/SOICIL 302: Social Stratification
__SOICIL 433 Immigration and the City
__BLKS 201: Global Systems and the Origins of Black American Culture and Institutions
__CJC 316: Race, Class and Justice
__GEOG 334: Gender and the Environment

The Urban Built Environment (choose one course):
__HISTORY 356: The Rise of the City in the U.S.
__UPD 432: Urban Environmental Planning & Design
__PSYCH 403: Environmental Psychology
__GEOG 309: Urban Geography
__UPD 472: Urban Redevelopment
__PUB-ADM 497: Urban Environmental Policy
__PHILOS 370 Environmental Ethics

Urban Policy and Urban Affairs (choose one course):
__PUB-ADM 415: Issues in Urban Administration
__ECON 435: Public Finance
__UPD 270: Urban Planning Theory and Practice
__POL-SCI 438: Urban Politics
__POL-SCI 328: State and Local Government
__UPD 450: Planning Law & Practices
__PHILOS 450WI: Ethics and Government
__POL-SCI 314: Politics of KC Metro
Women's and Gender Studies
Women's and Gender Studies Concentration and Minor
(816) 235-5854
wgs@umkc.edu
http://cas.umkc.edu/wgs

Mailing Address
Dr. Brenda Bethman, Director
Women's and Gender Studies Program
University of Missouri-Kansas City
Haag Hall, Room 204
5100 Rockhill Road
Kansas City, MO 64110-2499

- Program Description
- Educational Goals and Student Learning Outcomes
- Minor in Women's and Gender Studies
- Concentration in Women's and Gender Studies
- Interdisciplinary Women's and Gender Studies Course Listing
- Women's and Gender Studies Courses

Program Description
First established in the 1980s, Women's and Gender Studies (WGS) at UMKC is one of 650 such programs in the United States. WGS is both an inter- and multi-disciplinary academic program devoted to the critical analysis of how gender, race, class, ethnicity, and sexuality contribute to the diversity of women's and men's experiences. The program's interdisciplinary nature and cross-cultural academic training broadens students' understanding of gender and the experiences of women and men, girls and boys, in all cultures and societies. By placing gender at the center of scholarly inquiry, we not only examine the assumptions, methods, insights and claims of the traditional academic curriculum, but broaden it through our research interests, publications and courses to add cutting-edge feminist research, scholarship and activism.

WGS courses are offered by numerous departments in UMKC's College of Arts and Sciences, as well as in the Schools of Law, Medicine, and Nursing. A full list of courses is available every semester from the WGS office. The Program offers both an undergraduate minor and a concentration.

A minor in Women's and Gender Studies requires 18 credits. Nine credits must be in upper division courses (that is, 300 and 400) and no more than nine credits may overlap with your major. Reading courses on selected topics may be arranged with individual faculty members.

Interdisciplinary Women's and Gender Studies Course Listing

Art and Art History
- ART 315 The Arts of African and New World Cultures
- ART 497H Special Studies in the Art of African, Oceanic, and New World Cultures

Black Studies
- BLKS 480 Special Topic: The Black Family and Male/Female Relationships
- BLKS 480 Special Topic: Women's Literature in Africa and the African Diaspora

Classics
- CLASSICS 300CB Women in the Ancient World (cross-listed with History 300CO)

Communications Studies
- COMM-ST 320 Mass Media, Culture & Society

Criminal Justice and Criminology
- CJC 390 New Dimensions in Criminal Justice
- CJC 435WI Gender and Law
- CJC 450 Women, Crime and Criminal Justice
- CJC 488 Mentoring in the Juvenile Justice System: Involved Youth

English Language and Literature
- ENGLISH 241 Women and Literary Culture: Introduction
- ENGLISH 300CW Critical Issues in Women's and Gender Studies
- ENGLISH 342WI Women and Rhetoric
- ENGLISH 344WI Women and Literary Culture: Genre Focus
- ENGLISH 345WI Women and Literary Culture: Historical Focus
- ENGLISH 350 The 18th Century Novel: Women Writers
- ENGLISH 410 Black Women Writers
- ENGLISH 426 The Victorian Period
- ENGLISH 433 Histories of Writing, Reading and Publishing
- ENGLISH 441 Girls and Print Culture
- ENGLISH 450 Special Readings
- ENGLISH 455 Studies in the Novel 1740-1900: Jane Austen and Film

Environmental Studies
- ENV STUDIES 334 Gender and the Environment

History
- HISTORY 300CO Women in the Ancient World
- HISTORY 300G Special Topic: Girls' Studies
- HISTORY 300H Special Topic: Barbie Dolls
- HISTORY 354R Women in Modern America
- HISTORY 368 Children & Youth in American History
- HISTORY 369 Women and Work in Early America
- HISTORY 412A Medieval Women & Children
- HISTORY 428A History of the Body

Interdisciplinary Studies (PACE)
- INT-DISC 482P Meanings of Masculinities
- INT-DISC 483P Artful Man Embodied

Law
- LAW 8714 Gender and Justice (also offered as POL-SCI 480F)

Political Science
- POL-SCI 345 The Politics of Sex and Gender
• POL-SCI 480F Gender and Justice

Psychology
• PSYCH 305 Psychology of Women
• PSYCH 441 Adult Development & Aging

Religious Studies
• RELIG-ST 401 Religion in America
• RELIG-ST 404 Gender and Religion
• RELIG-ST 493 Sex and Religion
• RELIG-ST 494RS Death in the History of Religions
• RELIG-ST 495RS Time and Space in the History of Religions
• RELIG-ST 496RS The Body in the History of Religions

Sociology
• SOCIOL 300RV Gender and Religion
• SOCIOL 300CV Family Violence
• SOCIOL 303CW Critical Issues in Women's and Gender Studies
• SOCIOL 310R Families and the Life Course
• SOCIOL 313R Sociology of Women
• SOCIOL 314 Anthropology of Gender
• SOCIOL 318 Sociology of the Aging Woman
• SOCIOL 351 Gender, Work and Social Change
• SOCIOL 381P Everyday Masculinities
• SOCIOL 411 Sociology of Human Sexuality
• SOCIOL 418 Feminist Theories

Women's and Gender Studies
• WGS 201 Introduction to Women's and Gender Studies
• WGS 301 Introduction to Feminist Theory
• WGS 405 Women's Voices: Germany/Austria
• WGS 460 Queer in the City: An Intro to Lesbian and Gay Studies (cross-listed with Urban Studies 460CC)
• WGS 484 WGS Internship
• WGS 499 Senior Seminar

Educational Goals and Student Learning Outcomes
The educational goals for students in the Women’s and Gender Studies program are:
• To explore the historical development and contemporary manifestation of gender-based inequalities.
• To generate new knowledges about women’s lives and resistances in U.S. and global contexts.
• To advance critical research, thinking and writing skills as integral to professional development and political engagement.
• To foster understandings about how to transform inequalities of race, class, gender and nations through direct engagement with communities in service learning.

Specifically, students will have the opportunity to acquire certain knowledge, skills and experience:

Knowledge
Students studying Women's and Gender Studies will acquire knowledge about:
• The multidisciplinary nature and interdisciplinary methods of Women's and Gender Studies scholarship.
The historical and contemporary cultural, social, political and economic contexts of gender in the United States and globally.

The interaction of gender with other culturally constructed categories, such as race, age, etc., in order to foster a greater understanding of diversity.

Skills
Students studying Women’s and Gender Studies will have the skills to:

- Think across disciplines.
- Understand and utilize the theories and methods of the various disciplines that contribute to Women’s and Gender Studies.
- Apply their knowledge to a variety of careers in business, nonprofit work and the public sector, as well as be qualified for graduate studies in any social science.
- Be knowledgeable activists for the human rights of all women and men, irrespective of cultural biases and stereotypes.

Experience
Students studying Women’s and Gender Studies will be experienced in:

- Academic research and analysis in a variety of academic fields and disciplines.
- Professional and respectful interactions with disagreeing others in public discussions of gender issues (students will become teachers).
- Maintaining a recognition of human diversity and analyzing each human issue from a race, class and gender perspective (at a minimum).

Minor in Women's and Gender Studies
The minor in WGS offers an excellent inter- and multi-disciplinary curriculum that examines women, girls and gender throughout history and across cultures. WGS courses teach critical thinking through an examination of the historical and contemporary problems facing women locally, nationally and globally. Students expand their understanding of gender difference, cultural diversity and social change as they complete an 18-hour program of study from among a wide variety of classes in numerous fields and disciplines. WGS courses in history, sociology, psychology, criminal justice, English, religion, political science, law and other areas enable students to pursue a specialized focus which enhances their major in the humanities, social sciences or natural sciences. The minor also provides sufficient flexibility to allow for the creation of a course of study especially suited to the individual interests of students.

Requirements for the Minor
A minor in Women’s and Gender Studies requires 18 credits. Nine credits must be in upper division courses (that is, 300 and 400) and no more than nine credits may overlap with your major. Reading courses on selected topics may be arranged with individual faculty members.

Required courses (6 hours):

WGS 201: Introduction to Women's & Gender Studies
WGS 301: Introduction to Feminist Theory

The remaining 12 hours must be evenly split between the social sciences and humanities and chosen from an approved list of courses. A list of approved courses is published every semester.

Students are encouraged to take WGS 484: Women's & Gender Studies Internship and the Critical Issues in Women's & Gender Studies cluster course (offered through the departments of English and Sociology).
Concentration in Women's and Gender Studies

The WGS concentration provides greater depth and breadth than the 18-credit minor while still preserving the flexibility and focus of an interdisciplinary approach to the study of women and changing notions of gender. The concentration also serves as a valuable complement to any major field of study leading to a bachelor of arts or science degree.

Unlike the traditional discipline-based major, the Women’s and Gender Studies Concentration encourages students to pursue their studies systematically across the Arts and Sciences curriculum by providing a broad range of courses on women, gender, girls and masculinities. The three required courses are designed to introduce students to:

1. The study of women.
2. Theories of gender.
3. The diverse methods of inquiry employed by gender scholars.

The concentration also requires students to take classes in no less than three different disciplines (e.g., history, English and sociology) in order to:

- Identify the parallels between disciplines.
- Foster critical thinking about accepted categories and constructs.
- Acquire key concepts and knowledge of fundamental issues.
- Develop a basic vocabulary.
- Expand familiarity with major works, thinkers and directions in the field of Women’s and Gender Studies.

Students may choose from an approved list of courses in which women and/or gender are the central category of analyses. Individualized readings courses on selected topics also may be arranged with WGS faculty members. And, as new courses with a significant Women’s Studies component are offered, students pursuing the concentration may request course approval from the UMKC Advisement Center.

Requirements for the Concentration

There are three required courses (nine credits):

- WGS 201: Introduction to Women's & Gender Studies
- WGS 301: Introduction to Feminist Theory
- WGS 499: Research Seminar (or other research course)

The remaining 15 credits must be selected from a variety of disciplines. Students are also encouraged to take WGS 484: Women's & Gender Studies Internship and the Critical Issues in Women's and Gender Studies cluster course (offered through the departments of English and Sociology).
School of Biological Sciences

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Head, Division of Cell Biology and Biophysics:
Theodore White

Head, Division of Molecular Biology and Biochemistry:
Henry M. Miziorko

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**History and Description of School**

The School of Biological Sciences was established (originally as the School of Basic Life Sciences) in 1985. The School's vision is "to better the quality of life through excellence in education and research." This vision is realized through the provision of quality education at the undergraduate and graduate levels, the expansion of knowledge through scientific research, and the application of scientific information for the advancement of human welfare. The School has been designated as an eminence program by the curators of the University of Missouri, and as such is a unit targeted for expansion and development. Research by faculty, as well as graduate and undergraduate students, is focused on cellular and molecular aspects of modern biology, with emphases in molecular genetics, cell biology and structural biology. Advances in these areas will provide fundamental knowledge for biotechnology, molecular medicine, environmental remediation and computational biology. Students are encouraged to gain hands-on research experience, involving them in the process of creating knowledge and equipping them to shape the future.

Quality curriculum combined with research-active faculty and state-of-the-art equipment, provide students with an outstanding opportunity to expand critical thinking and problem solving skills while developing an in-depth understanding of the molecular, cellular, and genetic foundations of biological sciences.

**Undergraduate Programs and Admissions**

Students may pursue programs of study leading to the following degrees:

- Bachelor of science in biology
- Bachelor of science in biology with the cellular and molecular basis of health and disease emphasis
- Bachelor of science in biology with the bioinformatics emphasis
- Bachelor of science in biology with the biotechnology emphasis
- Bachelor of science in biology with the pre-dentistry concentration
- Bachelor of science in biology with clinical laboratory science/medical technology option
- Bachelor of arts in biology

Courses taught by the School of Biological Sciences support academic programs within the schools of Nursing, Dentistry, Medicine, Pharmacy and Education, and departments within the College of Arts and Sciences. An undergraduate minor in biology and a variety of courses that may interest non-biology majors are available to complement other fields of study, or to satisfy general education requirements of other academic units. A background in biology combined with non-science skills creates many career possibilities.

Students interested in pursuing undergraduate degree programs offered by the School of Biological Sciences are admitted through the UMKC Office of Admissions. Transfer students should contact the University admissions office and the School of Biological Sciences for information about transfer admissions and evaluation of transfer coursework. Transfer admission eligibility includes an overall grade-point average of at least 2.0 for all college-level coursework attempted at previous institutions, an overall GPA of at least 2.0 in courses used to fulfill School of Biological Sciences major requirements, and a University of Missouri Biology GPA of at least 2.0.
A Bachelor's Degree in Biology - Career Options

Our programs prepare students for a variety of career opportunities. Some students choose careers in the pharmaceutical or biotech industries, while others opt for graduate study in areas such as bioinformatics, forensics, or cell biology. In addition, a biology major is an excellent choice for students planning careers in medicine, veterinary medicine, dentistry, optometry, physical therapy, and other health professions.

The bachelor of science in biology curriculum fulfills the admissions requirements for most medical schools and dental schools and incorporates intermediate and upper-level biology courses specifically recommended by medical/dental school admissions officers. Those who wish to follow the pre-med track have the option to pursue the bachelor of science in biology with the cellular and molecular basis of health and disease emphasis, and those pursuing the pre-dental track may earn a bachelor of science in biology with a pre-dentistry concentration. Those who are interested in a career as a clinical laboratory scientist/medical technologist may choose to pursue the bachelor of science in biology with the CLS/medical technology option.

Undergraduate Advising

The School of Biological Sciences' team of well-trained academic advisers assists undergraduate students in developing individual plans of study. As teaching faculty, the advisers are uniquely qualified to help students understand and address course selection and professional development issues. Students will find the School of Biological Sciences Undergraduate Programs Handbook, which contains the latest information about degree requirements, academic rules, and related matters, on Blackboard under Biological Sciences Advising. Information on time management, reading and note-taking skills, communicating with professors, and taking exams can also be found on the Biological Sciences Advising site in Blackboard. To facilitate progress toward the student's degree, and to ensure that courses selected provide an appropriate academic program, students are required to participate in advising each semester before registering for classes.

Students enrolled in double majors or degree programs are advised by both academic units. The primary academic unit generally has the major advising responsibility. However, for issues pertaining specifically to a biology degree, an adviser at the School of Biological Sciences must be consulted.

Students are responsible for becoming familiar with all academic regulations of the campus as outlined in the catalog and in other University documents, including the SBS Undergraduate Programs Handbook.

Pre-Medicine, Pre-Dentistry and Pre-Health Professions Academic Advising

The School of Biological Sciences' experienced team of advisers is knowledgeable about admission requirements and application processes for health profession programs. It is important for students considering eventual application to medical, dental, or veterinary school or other professional programs to consult early and often with a School of Biological Sciences adviser about appropriate course selection and additional preparation.

Advisers assist the student in investigating programs throughout the country and in planning an
individualized undergraduate course of study. In addition they host informational meetings/workshops about aspects of planning for a health professions career, provide information on admission exam preparation, assist in the application process and in developing a personal statement, and help the student work with Career Services to compile a letter of recommendation file. Each student receives support and encouragement during all phases of the application process. Students are strongly encouraged to take advantage of adviser expertise by discussing their career plans beginning with their first semester at UMKC. Please see the additional catalog section on Pre-Medicine/Pre-Health for other information.

**Teacher Certification in Biology**

Certification as a middle school (grades 5-9) or secondary (grades 9-12) Biology teacher in either Kansas or Missouri requires that a student complete specific requirements in Biology, Chemistry, Environmental Science, Geology, Physics and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.
Graduate Programs
The School of Biological Sciences offers programs of study leading to a master of science degree in cellular and molecular biology. In addition, a master of arts degree in biology is offered. The school participates in UMKC's Interdisciplinary Ph.D. program in Cell Biology/Biophysics and Molecular Biology/Biochemistry.

Graduates with research experience in cell biology and biophysics or molecular biology and biochemistry may enter careers in many areas, including biotechnology, pharmaceutics, academia or governmental research involving the environment, agriculture, energy, defense or health.

Graduate Admissions
Admission to the school's graduate programs is competitive and students are encouraged to apply early. Applications are reviewed by an admissions committee that evaluates students on the basis of past performance and evidence of ability to pursue graduate studies successfully. The school admits students to its doctoral and master's degree programs throughout the year; however, early application (by Feb. 15) is advised to receive consideration for assistantships and other financial support.

Information on admission to master's or Ph.D. degree programs may be found at the Graduate Programs Web site at http://www.umkc.edu/sbs/graduate/, in the Graduate Academic Regulations and Information section of this catalog, by e-mail to sbs-grad@umkc.edu, or by writing to our graduate programs office at the mailing address at the beginning of this section.

Graduate teaching assistantships, graduate research assistantships and fellowships are available through the school and are awarded on a competitive basis. Currently, all fully admitted, full-time doctoral students receive financial support.

To be eligible for admission to the School of Biological Sciences' graduate programs, the applicant must:

- Possess a bachelor's degree in biological sciences or a related field with a minimum of 120 credit hours, or possess an advanced degree in a health sciences field. Have an undergraduate GPA of at least 3.0.
- Have sufficient background coursework to undertake graduate studies in biological sciences.
- Have acceptable scores in the Graduate Record Examination aptitude tests.
- Submit three letters of recommendation from individuals familiar with the student's academic performance and scientific abilities.

Students may be admitted with certain deficiencies, with the stipulation that these can be removed early in the course of study.
**Advising**
New students will be advised by the principal graduate adviser until they have selected their permanent research adviser. The graduate programs office will contact students in advance of their first semester for information about advising and registration. Students are responsible for becoming familiar with all academic regulations of the campus as outlined in the catalog and in

**Laboratories**
The School of Biological Sciences has modern, well-equipped laboratories organized into the following divisions:

**Division of Cell Biology and Biophysics**
This division houses the laboratories of anatomy, biophysics, developmental biology, cell biology, microbiology, neurobiology, structural biology and virology.

**Division of Molecular Biology and Biochemistry**
This division houses the laboratories of biochemistry, genetics, genetic engineering, membrane biochemistry, molecular biology, macromolecular structure, neurophysiology and cellular and molecular physiology.

**Organizations and Activities**
A campuswide biological sciences seminar program is organized and administered by the school. Throughout the year, weekly advanced research seminars are held, featuring presentations by nationally recognized visiting scientists and campus faculty. The School of Biological Sciences has both graduate and undergraduate student organizations that meet periodically for scientific discussions and social events.

**Requirements for Retention**
General requirements for retention of graduate students are described in the Graduate Academic Regulations and Information section of this catalog. For all graduate students, a 3.0 (B) GPA is required for satisfactory progress. No F grades are permitted.

Any doctoral student who receives more than one C grade in a basic course will be dropped from the doctoral program.

Any master's student who receives more than two C grades or more than one C and one D grade in graduate courses will be dropped from the program.
Doctor of Philosophy Study
The Ph.D. program at UMKC is interdisciplinary. Students interested in studies at the doctoral level in the
disciplines of cell biology and biophysics, or molecular biology and biochemistry, should apply to the
Interdisciplinary Ph.D. program in the School of Graduate Studies. Students interested in a combination
of cell biology and biophysics with molecular biology and biochemistry should apply to our graduate
programs at http://sbs.umkc.edu/graduate_application.cfm or by writing to the mailing address at the
beginning of this section.

Detailed information on the general and discipline-specific admission requirements for the Ph.D. is found
in the School of Graduate Studies section of this catalog, with specific details on the school's Web site
at http://www.umkc.edu/iphd.

Students pursuing Interdisciplinary Ph.D. studies who have selected cell biology and biophysics, or
molecular biology and biochemistry as one of their disciplines should consult the School of Graduate
Studies section of this catalog for degree requirements and other academic regulations applicable to their
degree program.
Master of Arts in Biology

Degree Requirements

The master of arts program of study requires a minimum of 36 credit hours. No more than 40 percent of the program may be at the 300- to 400-level; the balance must be at the 5500-level or above. Master of Arts Topics in Biology, BIOLOGY 5592, is required on an approved topic for an extensive investigation with oral presentation. This investigation may be accomplished through literature search or laboratory experimentation. No more than six hours of BIOLOGY 5591, Directed Individual Studies, may be applied to this program.

Students typically pursue the master of arts in biology and a certificate in the Truman Medical Center Nurse Anesthesia Program concurrently. For information about admission and degree requirements, students interested in the CRNA certificate should first contact the School of Nurse Anesthesia at Truman Medical Center, and then contact the School of Biological Sciences. Admission by both programs is required.

Master of Science in Cellular and Molecular Biology

Degree Requirements

<table>
<thead>
<tr>
<th>Thesis option</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-MBB 5561/LS-MBB 5562 General Biochemistry I and II</td>
<td>8</td>
</tr>
<tr>
<td>LS-CBB 5530/LS-CBB 5520 Cell and Molecular Biology I and II</td>
<td>6</td>
</tr>
<tr>
<td>LS-MBB 5611-or- LS-CBB 5612 Seminar</td>
<td>1</td>
</tr>
<tr>
<td>LS-MBB 5599-or- LS-CBB 5599 Thesis Research</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

Elective courses may be selected from the following list or from other alternatives approved by the School of Biological Sciences Graduate Programs Committee: LS-CBB 5505, LS-CBB 5520, LS-CBB 5530, LS-CBB 5566, LS-CBB 5569, LS-CBB 5596, LS-CBB 5597; LS-MBB 5503, LS-MBB 5565, LS-MBB 5567, LS-MBB 5596, LS-MBB 5597. A limited number of credit hours of upper-level undergraduate courses may be allowed.

Students pursuing the thesis option must also satisfactorily complete written and oral thesis exams.
### Non-thesis option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-MBB 5561/LS-MBB 5562</td>
<td>General Biochemistry I and II</td>
<td>8</td>
</tr>
<tr>
<td>LS-CBB 5530/LS-CBB 5520</td>
<td>Cell and Molecular Biology I and II</td>
<td>6</td>
</tr>
<tr>
<td>LS-MBB 5611 -or- LS-CBB 5612 Seminar</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Elective courses may be selected from the following list or from other alternatives approved by the School of Biological Sciences Graduate Programs Committee: LS-CBB 5505, LS-CBB 5520, LS-CBB 5530, LS-CBB 5538, LS-CBB 5566, LS-CBB 5569, LS-CBB 5596, LS-CBB 5597; LS-MBB 5503, LS-MBB 5538, LS-MBB 5565, LS-MBB 5567, LS-MBB 5596, LS-MBB 5597. A limited number of credit hours of upper-level undergraduate courses may be allowed.

The emphasis in bioinformatics is a degree option with specific requirements.

This degree option trains students in the fundamental principles of bioinformatics and prepares them for careers in research, medical and corporate settings. Students will learn how to manage and analyze data stored in databases, become familiar with the various computational tools and techniques available to analyze biological data, become familiar with the types of questions and problems within biology that lend themselves to bioinformatics analysis and gain proficiency with a variety of statistical techniques necessary to analyze genomic, proteomic and integrated biological data sets.

Emphasis requirements, in addition to the specified degree requirements.

<table>
<thead>
<tr>
<th>Required electives</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSOM 5508 Statistical Analysis in Business</td>
<td>3</td>
</tr>
<tr>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>MIS 5552 Data Base Management</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 5519 Principles of Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 5525 Bioinformatics and Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>9</td>
</tr>
</tbody>
</table>
School of Biological Sciences General Education Requirements

To earn a bachelor's degree in a program administered by the School of Biological Sciences, students must satisfy requirements in each of the areas listed below:

A. Communicating (9 credit hours)

To develop students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world. Students should be able to read and listen critically, and to write and speak with thoughtfulness, clarity, coherence and persuasiveness.

1. Writing and Critical Analysis: Students must satisfactorily complete ENGLISH 110 and ENGLISH 225. In addition, students must pass the Written English Proficiency Test (WEPT) or satisfactorily complete ENGLISH 299. A student earning a score of 30 or better on the ACT English subtest or 690 or better on the SAT Verbal, may be exempt from the ENGLISH 110 requirement.

2. Oral Augmentation/Speech: Students must satisfactorily complete COMM-ST 110 or COMM-ST 140.

B. Higher Order Thinking, Managing Information, and Valuing (6 credit hours)

To develop students' ability to distinguish among opinions, facts, and inferences; to identify underlying or implicit assumptions; to make informed judgments; and to solve problems by applying evaluative standards. To develop students' abilities to locate, organize, store, retrieve, evaluate, synthesize, and annotate information from print, electronic, and other sources in preparation for solving problems and making informed decisions. To develop students' abilities to understand the moral and ethical values of a diverse society and to understand that many courses of action are guided by value judgments about the way things ought to be. Students should be able to make informed decisions through identifying personal values and the values of others and through understanding how such values develop. They should be able to analyze the ethical implications of choices made on the basis of these values. Students must successfully complete 6 hours from at least two different fields, chosen from the following list:

- PHILOS 210 or PHILOS 222
- HISTORY 201, HISTORY 202, HISTORY 206 or HISTORY 208
- ANTHRO 103
- SOCIOL 101 or SOCIOL 103
- COMP-SCI 100 or above
- MATH 210 or MATH 216 or STAT 235

These courses, in addition to the remainder of the general education block of 42 hours, satisfy the three skill area goals of Higher Order Thinking, Managing Information, and Valuing. Courses chosen from this list may also be used to satisfy other general education requirements where appropriate.

C. Social and Behavioral Sciences (9 credit hours)

To develop students' understanding of themselves and the world around them through study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain and
predict human behavior and social systems. Students must understand the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others. (Students must fulfill the state statute requirements for the United States and Missouri constitutions.)

1. Constitution course chosen from: HISTORY 101, HISTORY 102, HISTORY 360R or POL-SCI 210 (3 hours).
2. Six additional credit hours from at least one field other than above, chosen from economics, history, political science, psychology, sociology, social science, geography, criminal justice (6 hours).

D. Humanities and Fine Arts (6 credit hours)

To develop students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge.

1. One 3 credit hour course chosen from English, communication studies, foreign Language, or philosophy.
2. One 3 credit hour course chosen from art/art history, conservatory or theater.

E. Mathematics (3 credit hours)

To develop students' understanding of fundamental mathematical concepts and applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems, and which could serve as a basis for continued learning. (The mathematics requirement for general education should have the same prerequisite(s) and level of rigor as college algebra.)

- MATH 110 or higher (including MATH 116).
- Students majoring in Biology will fulfill this requirement with the biology major's mathematics requirement of MATH 210 (Calculus I) or MATH 216 (Biomath I) or STAT 235 (Statistics).

F. Life and Physical Sciences (8 credit hours)

To develop students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts.

- One life science and one physical science, to include at least one laboratory component.
- Students majoring in biology will fulfill this requirement as a part of their major.
G. Total Credit Hours

In addition to the specific area requirements listed above, students must meet other University graduation requirements including, but not limited to, 120 total credit hours, 60 credit hours from a four-year institution if coursework is transferred from a non-Missouri institution, unless described otherwise in a specific articulation agreement with the School of Biological Sciences; 36 junior/senior level credit hours, taking the EPP Exam and the Major Field Exam, residency requirements, minimum GPA standards, and other requirements that may be specified.

Requirements for a Minor in Biology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 108L</td>
<td>General Biology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 109</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 109L</td>
<td>General Biology II Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 206</td>
<td>Genetics</td>
<td>3</td>
</tr>
</tbody>
</table>

One laboratory course chosen from LS-ANATO 118L, BIOLOGY 302L, BIOLOGY 312WL, LS-MCRB 313L, LS-MCRB 313WL, LS-BIOC 360L, LS-BIOC 360WL, BIOLOGY 328L or BIOLOGY 328WL.

Seven hours of upper-level biology majors courses.
The seven hours may include any of the upper-level lab courses listed above.

Total Biology hours: 21

Standards that must be met for the minor:

1. Only grades of C- or better will be allowed to count toward fulfillment of the required 21 hours of biology coursework.
2. Students seeking a biology minor must have a minimum cumulative 2.0 UM biology GPA in courses used to fulfill the minor requirements.
3. At least 11 of the 21 required hours must be earned from the School of Biological Sciences.
4. At least 4 of the 7 hours of junior/senior level coursework must be earned from the School of Biological Sciences.
**Bioinformatics Emphasis**
This instructional program incorporates courses from biology, computer science and mathematics. Students will obtain skills for the analysis of complex data, extraction of information from genomic and proteomic databases, and the design and development of software and algorithms to support these activities.

The curriculum of general education and biology majors courses, combined with the mathematics, chemistry and physics components is designed to provide undergraduate students with a clear program for the undergraduate background needed for a career in bioinformatics or to provide them with a solid, biologically oriented curriculum to pursue graduate level research in this area.

A. Biology course requirements

1. The following core courses (17 credit hours):

   Hours
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 108L</td>
<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 109</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 109L</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 206</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 341</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Emphasis course requirements (9 credit hours)

4. Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-BIOC 425</td>
<td>Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 430</td>
<td>Molecular Biology and Genetic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 405</td>
<td>Introduction to Evolution</td>
<td>3</td>
</tr>
</tbody>
</table>
3. Biology laboratory courses: LIFE-SCI 360WL taken with the writing intensive option and one additional lab course are required for a minimum of 5 credit hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-BIOC 360WL</td>
<td>Laboratory in Biochemistry and Molecular Biology (WI)</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 302L</td>
<td>Ecology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOLOGY 312WL</td>
<td>Lab in Developmental Biology, Genetics &amp; Cell Biology (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LS-MCRB 313L or LS-MCRB 313WL</td>
<td>Laboratory in Microbiology (WI)</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 328L or BIOLOGY 328WL</td>
<td>Lab in Histology and Cellular Ultrastructure (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LS-ANATO 118L</td>
<td>Introductory Anatomy Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 498WI</td>
<td>Critical Analysis of Biological Issues (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SCI 490WI</td>
<td>Senior Seminar (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SCI 499</td>
<td>Undergraduate Research</td>
<td>1-3</td>
</tr>
<tr>
<td>LIFE-SCI 497</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>

5. Students must complete additional biology majors coursework for a total of 42 credit hours of biology courses with grades of C- or better. At least 26 of these must be at the 300- or 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The UM Biology GPA must be 2.0 or higher.

B. Physical sciences and mathematics requirements

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP-SCI 101</td>
<td>Problem Solving and Programming I (SCI)</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 191</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>COMP-SCI 201</td>
<td>Problem Solving and Programming II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 216 or MATH 210</td>
<td>Biomath I or Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 226 or MATH 220</td>
<td>Biomath II or Calculus II</td>
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</tr>
<tr>
<td>STAT 235</td>
<td>Statistics</td>
<td>3</td>
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<tr>
<td>PHYSICS 210 or PHYSICS 240</td>
<td>General Physics I or Physics for Science and Engineering I</td>
<td>4-5</td>
</tr>
<tr>
<td>PHYSICS 220 or PHYSICS 250*</td>
<td>General Physics II or Physics for Science and Engineering II*</td>
<td>4-5</td>
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<tr>
<td>CHEM 211</td>
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<td>4</td>
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<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
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<tr>
<td>CHEM 212LR</td>
<td>Experimental General Chemistry II</td>
<td>1</td>
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<tr>
<td>CHEM 321</td>
<td>Organic Chemistry I</td>
<td>3</td>
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<tr>
<td>CHEM 321L</td>
<td>Organic Chemistry Laboratory I</td>
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<tr>
<td>CHEM 322R</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

*Students may choose LIFE-SCI 401, Biophysical Principles (3 credit hours), as an alternative to PHYSICS 250. A minimum of 120 credit hours is required; and 36 of these must be at the junior/senior level. Electives may be taken from any area once other degree requirements have been met.
**Biotechnology Emphasis**
This instructional program is designed to prepare students for careers in the biotechnology industry as well as careers in basic biological research. A B.S. degree in Biology with the Biotechnology Emphasis also is appropriate for those students who wish to pursue advanced degrees in cell and molecular biology, genetics, microbiology or biochemistry.

**A. Biology course requirements**

1. Core courses (17 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
<td>3</td>
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<tr>
<td>BIOLOGY 108L</td>
<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 109</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 109L</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 206</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 341</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Emphasis course requirements (12 credit hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-MCRB 313</td>
<td>Introduction to Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 409</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 425</td>
<td>Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 430</td>
<td>Molecular Biology and Genetic Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Laboratory course requirements (9 credit hours; 6 of these must be WI):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-MCRB 313L or</td>
<td>Laboratory in Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>LS-MCRB 313WL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOLOGY 312WL</td>
<td>Lab in Developmental Biology, Genetics &amp; Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 360L or</td>
<td>Lab in Biochemistry and</td>
<td></td>
</tr>
<tr>
<td>LS-BIOC 360WL</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
</tbody>
</table>
4. Biology synthesis requirement (Choose a total of 3 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 498WI</td>
<td>Critical Analysis of Biological Issues (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SCI 490WI</td>
<td>Senior Seminar (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SCI 499</td>
<td>Undergraduate Research</td>
<td>1-3</td>
</tr>
<tr>
<td>LIFE-SCI 497</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>

5. Students must complete additional biology majors coursework to total at least 42 credit hours of biology courses with grades of C- or better. At least 26 of these must be at the 300- or 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The UM Biology GPA must be at least 2.0.

B. Physical sciences and mathematics requirements

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP-SCI 101</td>
<td>Problem Solving and Programming I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 235</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 216 or MATH 210</td>
<td>Biomath I or Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 226 or MATH 220</td>
<td>Biomath II or Calculus II</td>
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<tr>
<td>PHYSICS 210 or</td>
<td>General Physics I or</td>
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</tr>
<tr>
<td>PHYSICS 240</td>
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<td>PHYSICS 220 or</td>
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<td>4-5</td>
</tr>
<tr>
<td>PHYSICS 250*</td>
<td>Physics for Science and Engineering II*</td>
<td></td>
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<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4</td>
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<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
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<td>Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>
CHEM 321L Organic Chemistry Laboratory I 1
CHEM 322R Organic Chemistry II 3
CHEM 322L Organic Chemistry Laboratory II 1

*Students may choose LIFE-SCI 401, Biophysical Principles (3 credit hours), as an alternative to PHYSICS 250. A minimum of 120 credit hours is required, and 36 of these must be at the junior/senior level. Electives may be taken from any area once other degree requirements have been met.

**Cellular and Molecular Basis of Health and Disease Emphasis**

This instructional program fully prepares individuals for admission to a professional school in medicine, including alloopathic, osteopathic or podiatric medicine programs. By completing the requirements of the bachelor's of science in biology with the cellular and molecular basis of health and disease emphasis, students will complete all of the minimum prerequisites and the upper level biology electives which are highly recommended by most medical schools.

The courses selected provide a foundation of knowledge in modern cellular and molecular biology, essential for understanding medical science. The curriculum of general education and biology majors courses, combined with the mathematics, chemistry and physics components, provides the background essential to understanding the latest diagnostic and treatment technologies.

General education requirements are the same as for all students seeking a bachelor's degree in biology. Completion of the emphasis requirements will be noted on the UMKC transcript. Through proper planning with a School of Biological Sciences adviser, biology majors can use their electives and general education requirements to complete the healing and humanities minor.

**A. Biology course requirements**

1. Core courses (17 credit hours) Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
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<td>BIOLOGY 108L</td>
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<td>BIOLOGY 109</td>
<td>General Biology II</td>
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<tr>
<td>BIOLOGY 109L</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 206</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 341</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>
2. Emphasis course requirements (15 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>LS-PHYS 316</td>
<td>Principles of Physiology</td>
<td>3</td>
</tr>
<tr>
<td>LS-MCRB 313</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 409</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 430</td>
<td>Molecular Biology and Genetic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>LS-MCRB 431 or LS-MCRB 435</td>
<td>Virology or Immunology</td>
<td>3</td>
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</table>

3. Laboratory course requirements (minimum of 5 credit hours, must include LS-MCRB 313WL.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>LS-MCRB 313WL</td>
<td>Lab in Microbiology (WI)</td>
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</table>

Elective (Choose at least 2 credit hours from the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 312WL</td>
<td>Lab in Developmental Biology, Genetics &amp; Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 328L or BIOLOGY 328WL</td>
<td>Lab in Histology and Cellular Ultrastructure</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 360L or LS-BIOC 360WL</td>
<td>Lab in Biochemistry and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>LS-ANATO 118L</td>
<td>Introductory Anatomy Lab</td>
<td>2</td>
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</table>

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 498WI</td>
<td>Critical Analysis of Biological Issues</td>
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<tr>
<td>LIFE-SCI 490WI</td>
<td>Senior Seminar</td>
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<td>LIFE-SCI 499</td>
<td>Undergraduate Research</td>
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</tr>
<tr>
<td>LIFE-SCI 497</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>
5. A total of 42 credit hours of biology courses must be completed with grades of C- or better. At least 26 of these must be at the 300- or 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The Microbiology laboratory course must be writing intensive. The UM Biology GPA must be at least 2.0.

B. Physical sciences and mathematics requirements

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements. 

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MATH 216 or MATH 210 Biomath I or Calculus I</td>
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<tr>
<td>MATH 226 or MATH 220 Biomath II or Calculus II or STAT 235 or Elementary Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYSICS 210 or General Physics I or PHYSICS 240 Physics for Science and Engineering I</td>
<td>4-5</td>
</tr>
<tr>
<td>PHYSICS 220 or General Physics II or PHYSICS 250* Physics for Science and Engineering II</td>
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</tr>
<tr>
<td>CHEM 211 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L Experimental General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 212R General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212LR Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 321 Organic Chemistry I</td>
<td>3</td>
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<tr>
<td>CHEM 321L Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 322R Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

*Students may choose LIFE-SCI 401, Biophysical Principles (3 credit hours), as an alternative to PHYSICS 250.

A minimum of 120 credit hours is required; and 36 of these must be at the junior/senior level. Electives may be taken from any area once other degree requirements have been met.
Suggested Plan of Study
This is a general plan that may be adjusted to accommodate individual background interests, abilities and career objectives.

Freshman Year
Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108*</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 108L*</td>
<td>General Biology I Lab</td>
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<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
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<tr>
<td>General Education Requirement</td>
<td>(ex: ENGL 110)</td>
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Total: 12

Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOLOGY 109*</td>
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<tr>
<td>BIOLOGY 109L*</td>
<td>General Biology II Lab</td>
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<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td>Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>(ex. COMST 110 or 140)</td>
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</tr>
</tbody>
</table>

General Education Requirement
(ex. Higher Order Thinking elective) 3
Total: 15

*General Biology II may be taken before General Biology I if desired.

Sophomore Year
Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
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<td>CHEM 321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Organic Chemistry I Lab</td>
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</tr>
<tr>
<td>MATH 210*</td>
<td>Calculus I</td>
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</tr>
<tr>
<td>General Education Requirement</td>
<td>(ex. English 225)</td>
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</table>

General Education Requirement
(ex. Constitution requirement) 3
Total: 17

* Prerequisite MATH 110 or 4 years HS Math including Algebra II, and Trigonometry.
**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOLOGY 206</td>
<td>Genetics</td>
<td>3</td>
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<tr>
<td>CHEM 322R</td>
<td>Organic Chemistry II</td>
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</tr>
<tr>
<td>CHEM 322L</td>
<td>Organic Chemistry II Lab</td>
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</tr>
<tr>
<td>MATH 220 or STAT 235</td>
<td>Calculus II or Elementary</td>
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<td>BIOLOGY ____</td>
<td>Biology Elective</td>
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</table>

**Total:** 13-14

**Junior Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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<td>LS-BIOC 341</td>
<td>Basic Biochemistry</td>
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</tr>
<tr>
<td>BIOLOGY ____</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 210 or PHYSICS 240</td>
<td>General Physics I or</td>
<td>4-5</td>
</tr>
<tr>
<td></td>
<td>Physics for Science and Engineering I</td>
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</tr>
</tbody>
</table>

**General Education Requirement**
(ex. Humanities Elective) 3

<table>
<thead>
<tr>
<th>Elective</th>
<th></th>
<th>Hours</th>
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</thead>
</table>

**Total:** 15-16

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY ____</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY ____</td>
<td>Biology Lab Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 220 or PHYSICS 250</td>
<td>General Physics II or</td>
<td>4-5</td>
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<tr>
<td></td>
<td>Physics for Science and Engineering II</td>
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</table>

**General Education Requirement**
(ex. Higher Order Thinking elective) 3

<table>
<thead>
<tr>
<th>Elective</th>
<th></th>
<th>Hours</th>
</tr>
</thead>
</table>

**Total:** 15-16
**Senior Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY ___ Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY ___ Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY ___ Biology Lab Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirement
(ex. Social & Behavioral Science Elective) 3

General Education Requirement
(ex. Fine Art Elective) 3

Total: 15

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY ___ Biology Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td></td>
</tr>
<tr>
<td>(ex. Social and Behavioral Science Elective)</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY ___ Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 15

Students must complete a total of 42 credit hours of biology courses with grades of C- or better and maintain a cumulative UM Biology GPA of at least 2.0. 26 of these credit hours must be junior/senior level and must include LSBIOC 341, a biology synthesis course, and two laboratory courses. One Biology Lab must be Writing Intensive.
**Pre-Dentistry Concentration**

This instructional program fully prepares individuals for admission to a professional school in dentistry. By completing the requirements of the bachelor's of science in biology with the pre-dentistry concentration, students will complete all of the minimum prerequisites and upper level electives suggested by dental schools across the United States. The courses selected provide a foundation of knowledge in modern dentistry, essential for understanding dental science. The curriculum of general education and biology majors courses, combined with the mathematics, chemistry and physics components, provides the background essential to understanding the latest diagnostic and treatment technologies.

General education requirements are the same as for all students seeking a bachelor's degree in biology. Through proper planning with a School of Biological Sciences adviser, biology majors can use their elective general education requirements to complete the healing and humanities minor.

**A. Biology course requirements**

1. Core courses (17 credit hours)  

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
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<tr>
<td>BIOLOGY 108L</td>
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<td>General Biology II</td>
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<tr>
<td>BIOLOGY 109L</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 206</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 341</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Concentration course requirements (17 credit hours)  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-ANATO 118</td>
<td>Introductory Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>LS-PHYS 316</td>
<td>Principles of Physiology</td>
<td>3</td>
</tr>
<tr>
<td>LS-MCRB 313</td>
<td>Introduction to Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 409</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 328</td>
<td>Histology</td>
<td>2</td>
</tr>
</tbody>
</table>
LS-MCRB 435 or Immunology or
LS-BIOC 430 Molecular Biology and

Genetic Engineering 3

3. Required laboratory courses (BIOLOGY 328WL must be taken using the writing intensive option.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 328WL</td>
<td>Laboratory in Histology and Cellular Ultrastructure (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LS-ANATO 118L</td>
<td>Introductory Anatomy Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 498WI</td>
<td>Critical Analysis of Biological Issues</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SI 490WI</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SI 499</td>
<td>Undergraduate Research</td>
<td>1-3</td>
</tr>
<tr>
<td>LIFE-SI 497</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>

5. Students must complete additional biology majors coursework to total 42 credit hours of biology courses with grades of C- or better. At least 26 of these must be at the 300- or 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The UM biology GPA must be at least 2.0.

B. Physical sciences and mathematics requirements

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 216 or MATH 210</td>
<td>Biomath I or Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 226 or MATH 220</td>
<td>Biomath II or Calculus II</td>
<td>3-4</td>
</tr>
</tbody>
</table>
PHYSICS 210 or PHYSICS 240 General Physics I or
PHYSICS 220 or PHYSICS 250* General Physics II
PHYSICS 240 Physics for Science and
PHYSICS 250* Physics for Science and
Engineering I
Engineering II*

CHEM 211 General Chemistry I 4
CHEM 211L Experimental General Chemistry I 1
CHEM 212R General Chemistry II 4
CHEM 212LR Experimental General Chemistry II 1
CHEM 321 Organic Chemistry I 3
CHEM 321L Organic Chemistry Laboratory I 1
CHEM 322R Organic Chemistry II 3
CHEM 322L Organic Chemistry Laboratory II 1

*Students may choose LIFE-SCI 401, Biophysical Principles (3 credit hours) as an alternative to PHYSICS 250.

A minimum of 120 credit hours is required; and 36 of these must be at the junior/senior level.

**Elective Courses for the Non-Biology Major**

Students in other academic units are encouraged to select courses in the School of Biological Sciences to meet their general education requirements and to complement their major area of study. Suggested courses include BIOLOGY 102, 102L, LS-ANATO 118, 118L, LS-MCRB 112, LS-PHYS 117 and 117L, BIOLOGY 108, 109, 202, 206 and upper-level courses for which prerequisites have been satisfied are recommended for those students who wish to gain a strong foundation in biological sciences. Students enrolling in these biology majors’ courses should have a solid background in high school biology and chemistry.

**Bachelor of Arts in Biology**

Students who complete an undergraduate degree in biology will be able to:

1. Identify fundamental concepts in the biological sciences, including
   a. the relationship between structure and function at all levels of biological organization,
   b. evolution and the role of natural selection in the process,
   c. ecological relationships between organisms and their environment.
2. Describe cellular structure and explain the major biochemical processes that occur in cells.
3. Describe and explain the mechanisms of heredity and the flow of genetic information.

4. Apply knowledge in basic mathematics, chemistry, and physics to solve biological problems.

5. Employ techniques and procedures commonly used in modern biology laboratories.

6. Analyze and critically evaluate scientific data.

7. Write clearly about topics in the biological sciences for a peer or professional audience.

The B.A. degree program in biology is designed to accommodate students who want a solid background in the biological sciences, but who need less rigorous studies in the supporting sciences of chemistry, mathematics and physics. It is also recommended for students who plan to pursue double majors.

**Degree Requirements**

In addition to meeting the general education degree requirements outlined previously, students pursuing the B.A. degree in biology must meet the following requirements:

**A. Biology Course Requirements**

1. The following core courses (17 credit hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 108L</td>
<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 109</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 109L</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 206</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>LS-BIOC 341</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

2. One of the following biology laboratory courses (minimum 2 credit hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 302L</td>
<td>Ecology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOLOGY 312WL</td>
<td>Laboratory in Developmental Biology, Genetics and Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>LS-MCRB 313L or LS-MCRB 313WL</td>
<td>Laboratory in Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 328L or</td>
<td>Laboratory in Histology and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BIOLOGY 328WL  Cellular Ultrastructure
LS-BIOC 360L or LS-BIOC 360WL  Laboratory in Biochemistry and Molecular Biology 3
LS-ANATO 118L  Introductory Anatomy Laboratory 2

3. Biology Synthesis requirement (Choose a total of 3 credit hours.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 498WI</td>
<td>Critical Analysis of Biological Issues (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SCI 490WI</td>
<td>Senior Seminar (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SCI 499</td>
<td>Undergraduate Research</td>
<td>1-3</td>
</tr>
<tr>
<td>LIFE-SCI 497</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>

4. Students must complete additional biology majors coursework to total at least 38 credit hours of biology courses with grades of C- or better. At least 24 of these must be at the 300- or 400-level. One of these courses must be writing intensive. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The UM Biology GPA must be at least 2.0.

B. Additional Science and Mathematics Course Requirements

The following courses must be completed with grades of C- or better:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 216 or MATH 210 or STAT 235</td>
<td>Biomath I or Calculus I or Elementary Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td>Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 320</td>
<td>Elementary Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 320L</td>
<td>Experimental Organic Chemistry</td>
<td>1</td>
</tr>
</tbody>
</table>

Bachelor of Science in Biology

Students who complete an undergraduate degree in biology will be able to:

1. Identify fundamental concepts in the biological sciences, including
   a. the relationship between structure and function at all levels of biological organization,
   b. evolution and the role of natural selection in the process,
c. ecological relationships between organisms and their environment.

2. Describe cellular structure and explain the major biochemical processes that occur in cells.

3. Describe and explain the mechanisms of heredity and the flow of genetic information.

4. Apply knowledge in basic mathematics, chemistry, and physics to solve biological problems.

5. Employ techniques and procedures commonly used in modern biology laboratories.

6. Analyze and critically evaluate scientific data.

7. Write clearly about topics in the biological sciences for a peer or professional audience.

The B.S. degree program is a rigorous curriculum designed for students interested in preparing for graduate studies or a professional school, or pursuing entry level employment in a science-related field.

Requirements

In addition to the general education requirements, students pursuing the B.S. degree in biology must meet the following requirements:

A. Biology Course Requirements

1. The following core courses (17 credit hours) are required.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
</tr>
<tr>
<td>1</td>
<td>BIOLOGY 108L</td>
<td>General Biology I Laboratory</td>
</tr>
<tr>
<td>3</td>
<td>BIOLOGY 109</td>
<td>General Biology II</td>
</tr>
<tr>
<td>1</td>
<td>BIOLOGY 109L</td>
<td>General Biology II Laboratory</td>
</tr>
<tr>
<td>3</td>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>3</td>
<td>BIOLOGY 206</td>
<td>Genetics</td>
</tr>
<tr>
<td>3</td>
<td>LS-BIOC 341</td>
<td>Basic Biochemistry</td>
</tr>
</tbody>
</table>

2. Two of the following laboratory courses are required for a minimum of 5 credit hours. One of these courses must be a Writing Intensive (WI) course. The second may be taken using the non-WI option.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>BIOLOGY 302L</td>
<td>Ecology Laboratory</td>
</tr>
<tr>
<td>3</td>
<td>BIOLOGY 312WL</td>
<td>Laboratory in Developmental Biology, Genetics and Cell Biology (WI)</td>
</tr>
<tr>
<td>3</td>
<td>LS-MCRB 313L or</td>
<td>Laboratory in Microbiology(WI)</td>
</tr>
<tr>
<td>3</td>
<td>LS-MCRB 313WL</td>
<td>Laboratory in Microbiology(WI)</td>
</tr>
<tr>
<td>3</td>
<td>BIOLOGY 328L or</td>
<td>Laboratory in Histology and</td>
</tr>
<tr>
<td>3</td>
<td>BIOLOGY 328WL</td>
<td>Cellular Ultrastructure (WI)</td>
</tr>
<tr>
<td>3</td>
<td>LS-BIOC 360L or</td>
<td>Laboratory in Biochemistry</td>
</tr>
</tbody>
</table>
LS-BIOC 360WL and Molecular Biology (WI) 3
LS-ANATO 118L Introductory Anatomy Laboratory 2

3. The Biology Synthesis requirement may be met by a total of 3 credit hours chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 498WI</td>
<td>Critical Analysis of Biological Issues (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SCI 490WI</td>
<td>Senior Seminar (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LIFE-SCI 499</td>
<td>Undergraduate Research</td>
<td>1-3</td>
</tr>
<tr>
<td>LIFE-SCI 497</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>

4. Students must complete additional biology majors coursework for a total of 42 credit hours of biology courses with grades of C- or better. 26 of these hours must be junior/senior level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences.

B. Physical Sciences and Mathematics Course Requirements

The following courses must be completed with grades of C- or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 216 or MATH 210</td>
<td>Biomath I or Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 226 or MATH 220</td>
<td>Biomath II or Calculus II</td>
<td></td>
</tr>
<tr>
<td>or STAT 235</td>
<td>or Elementary Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYSICS 210 or GEN. PHYSICS I or PHYSICS 240</td>
<td>Gen. Physics I or Physics for Science and Engineering I</td>
<td>4-5</td>
</tr>
<tr>
<td>PHYSICS 220 or GEN. PHYSICS II or PHYSICS 250*</td>
<td>Gen. Physics II or Physics for Science and Engineering II*</td>
<td>4-5</td>
</tr>
<tr>
<td>PHYSICS 250*</td>
<td>Science and Engineering II*</td>
<td>4-5</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td>Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 322R</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

* Students may choose LIFE-SCI 401 Biophysical Principles (3 credit hours) as an alternative to PHYSICS 250.
**Suggested Plan of Study**

This is a general plan that may be adjusted to accommodate individual background interests, abilities and career objectives.

**Freshman Year**

**Fall Semester**  
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108*</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 108L*</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>1</td>
</tr>
<tr>
<td>General Education Requirement (ex: COMM-ST 110)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Spring Semester**  
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 109*</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 109L*</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td>1</td>
</tr>
<tr>
<td>General Education Requirement (ex: ENGLISH 110)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

*General Biology II may be taken before General Biology I if desired.

**Sophomore Year**

**Fall Semester**  
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 202</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>1</td>
</tr>
<tr>
<td>MATH 210*</td>
<td>4</td>
</tr>
<tr>
<td>General Education Requirement (ex: ENGLISH 225)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

* Prerequisite MATH 110 or 4 years HS Math including Algebra II, and Trigonometry.

**Spring Semester**  
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 206</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322R</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Organic Chemistry II Lab</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus II or Elementary</td>
</tr>
<tr>
<td>STAT 235</td>
<td>Statistics</td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Elective</td>
</tr>
<tr>
<td></td>
<td><strong>Total:</strong> 13-14</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>LS-BIOC 341</td>
<td>Basic Biochemistry</td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Elective</td>
</tr>
<tr>
<td>PHYSICS 210 or</td>
<td>General Physics I or</td>
</tr>
<tr>
<td>PHYSICS 240</td>
<td>Physics for Science and Engineering I</td>
</tr>
<tr>
<td></td>
<td>General Education Requirement</td>
</tr>
<tr>
<td></td>
<td>(ex. Humanities Elective)</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>15-16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Elective</td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Lab Elective</td>
</tr>
<tr>
<td>PHYSICS 220 or</td>
<td>General Physics II or</td>
</tr>
<tr>
<td>PHYSICS 250</td>
<td>Physics for Science and Engineering II</td>
</tr>
<tr>
<td></td>
<td>General Education Requirement</td>
</tr>
<tr>
<td></td>
<td>(ex. Higher Order Thinking elective)</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>15-16</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Elective</td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Elective</td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Lab Elective</td>
</tr>
<tr>
<td></td>
<td>General Education Requirement</td>
</tr>
<tr>
<td></td>
<td>(ex. Social &amp; Behavioral Science Elective)</td>
</tr>
<tr>
<td></td>
<td>General Education Requirement</td>
</tr>
<tr>
<td></td>
<td>(ex. Fine Art Elective)</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Synthesis</td>
</tr>
<tr>
<td></td>
<td>General Education Requirement</td>
</tr>
<tr>
<td></td>
<td>(ex. Social and Behavioral Science Elective)</td>
</tr>
<tr>
<td>BIOLOGY ___</td>
<td>Biology Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>15</td>
</tr>
</tbody>
</table>
Students must complete a total of 42 credit hours of biology courses with grades of C- or better and maintain a cumulative UM Biology GPA of at least 2.0. 26 of these credit hours must be junior/senior level and must include LS-BIOC 341, a biology synthesis course, and two laboratory courses. One Biology Lab must be Writing Intensive.

The Honors Program
The School of Biological Sciences offers a biology honors program for bachelor of science undergraduate students interested in pursuing rigorous preparation for advanced professional training and scientific careers. The program combines a requirement for high levels of academic achievement with hands-on undergraduate research with a faculty mentor. Biology honors students are included in all scholarly and social events of the School of Biological Sciences graduate program. Students are encouraged to apply by contacting the School of Biological Sciences Undergraduate Programs Office.

Freshman students may be accepted into the honors program if they are in the top 10 percent of their high school graduating class and have a composite score greater than 1300 on the SAT, 1350 on the recentered SAT, or 30 on the ACT. Eligible students may also be accepted at the end of their freshman year or later (until the beginning of their junior year or 70 credit hours). Requirements for admission at the end of the freshman or sophomore year for UMKC students or transfer students include:

1. A 3.5 minimum undergraduate GPA.
2. A 3.5 undergraduate GPA in sciences/mathematics.
3. Satisfactory progress to that point in the B.S. degree program, including completion (minimally) of CHEM 211 and CHEM 212R, MATH 210 or MATH 216, and BIOLOGY 108 and BIOLOGY 109 or equivalents, with grades of B or better.
4. An interview to explore the student's interests and identify an appropriate faculty mentor.

Graduation with a B.S. in biology with honors will be noted on the official university transcript and records of those students who:

1. Complete all of the B.S. degree requirements.
2. Complete at least two semesters (4 credit hours total) of undergraduate honors research LIFE-SCI 499M with a grade of B or better.
3. Maintain a 3.5 UM GPA; 3.5 science/mathematics UM GPA.
4. Successfully complete a semester of honors seminar LIFE-SCI 490WI.
5. Satisfactory completion of of an undergraduate (senior) research thesis.

Requirements for retention in the Biology Honors Program include the following:

1. Students must maintain a 3.5 minimum UM cumulative GPA and a 3.5 minimum Math-Science GPA to be in good standing in the biology honors program.
2. Should either the cumulative or Math-Science GPA drop below 3.5, but not below 3.2 in any given semester, the student will be retained in the biology honors program for an additional
semester. The student must restore the GPA to the 3.5 minimum at the end of that semester. A student who has less than a 3.2 cumulative UM GPA at the end of any semester will be dropped from the biology honors program.

3. Students must make satisfactory progress in the biology honors program, as determined by the SBS Academic Standards Committee, in order to be retained in the program.

**Requirements for Bachelor of Arts in Biology for combined BA/MD Dual Degree Program**

1. General education requirements are the same for all students pursuing a Bachelor's degree in SBS. Students in the 6 yr BA/MD program will apply specific courses required by the medical program to fulfill these requirements.

2. Physical sciences and mathematics requirements: All of the following courses are required.

   A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 216 or MATH 210</td>
<td>Biomath I or Calculus I</td>
<td>3-4 cr. hr.</td>
</tr>
<tr>
<td>or STAT 235</td>
<td>or Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>General Physics I or</td>
<td></td>
</tr>
<tr>
<td>or PHYSICS 240</td>
<td>Physics for Science and Engineering I</td>
<td>4-5 cr. hr.</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4 cr. hr.</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
<td>4 cr. hr.</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td>Experimental General Chemistry II</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>CHEM 320</td>
<td>Elementary Organic Chemistry</td>
<td>4 cr. hr.</td>
</tr>
<tr>
<td>CHEM 320L</td>
<td>Experimental Organic Chemistry</td>
<td>1 cr. hr.</td>
</tr>
</tbody>
</table>

3. Biology course requirements. Biology courses that fulfill the BA degree requirements are listed below. A total of 38 credit hours of biology courses is required and at least 24 of these must be at the 300 or 400 level. A minimum of 21 credit hours of biology courses must be earned from UMKC SBS. A grade of C- or better is required in each course used to fulfill these requirements.

   A. All of the following courses are required of all students seeking the BA degree in Biology. These core curriculum requirements constitute a total of 17 credit hours plus 2 credit hours of elective upper level biology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
<td>3 cr. hr.</td>
</tr>
<tr>
<td>BIOLOGY 108L</td>
<td>General Biology I Lab</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>BIOLOGY 109</td>
<td>General Biology II</td>
<td>3 cr. hr.</td>
</tr>
<tr>
<td>BIOLOGY 109L</td>
<td>General Biology II Lab</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>BIOLOGY 202</td>
<td>Cell Biology</td>
<td>3 cr. hr.</td>
</tr>
<tr>
<td>BIOLOGY 206</td>
<td>Genetics</td>
<td>3 cr. hr.</td>
</tr>
</tbody>
</table>

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BMS 9265 Human Biochemistry 5 cr. hr.

B. The following courses are required for 10 credit hours.
   LS-MCRB 313 Microbiology 3 cr. hr.
   BMS 9296, BMS 9297, BMS 9298 Human Structure Function 7 cr. hr.

C. The following laboratory courses are required.
   LS-MCRB 313WL Laboratory in Microbiology 3 cr. hr.
   LS-ANATO 118L Introductory Anatomy Lab 2 cr. hr.

D. Dual Degree requirement
   LS-ANATO 119 Functional Anatomy I 3 cr. hr.

E. Biology Synthesis Requirement
   (Choose a total of 3 credit hours)
   BIOLOGY 498WI Critical Analysis of Biological Issues 3 cr. hr.
   LIFE-SCI 490WI Senior Seminar 3 cr. hr.
   LIFE-SCI 497 Special Topics 1-3 cr. hr.
   LIFE-SCI 499 Undergraduate Research 1-3 cr. hr.

F. Additional 3 credit hours of upper level biology coursework is needed to complete the total of 38 required credit hours in biology, 24 of which must be junior/senior level and one of which must be a writing intensive course.

4. The UM Biology GPA must be at least 2.0.

5. A minimum of 120 credit hours is required (with a maximum of 30 credit hours of professional credit allowed toward the degree) and 36 of these must be at the junior/senior level. Electives may be taken from any area once other degree requirements have been met.
Computing and Engineering, School of

Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 534, Kansas City, MO 64110
Phone: (816) 235-2399
Fax: (816) 235-5159
sce@umkc.edu
http://sce.umkc.edu/

Mailing Address
University of Missouri-Kansas City
School of Computing and Engineering
534 Flarsheim Hall
5100 Rockhill Road
Kansas City, MO 64110-2499

Dean:
Kevin Z. Truman

Associate Dean of Academics:
Jerry Place

Department of Civil and Mechanical Engineering:
Chair: Mark McClernon
352 Flarsheim Hall
(816) 235-5550

See CME Catalog and CME Website

Department of Computer Science Electrical Engineering:
Chair: Ghulam Chaudhry
546 Flarsheim Hall
(816) 235-1193

See CSEE Catalog and CSEE Website

- SCE
- General Description
- Financial Assistance
- Departments and Programs
  - Civil and Mechanical Engineering
  - Computer Science Electrical Engineering
- Dual Degree Programs
**General Description**

**History**

The University has offered engineering degree programs since 1956. Increased technology demands during the mid-80s, combined with a generous gift from United Telecom (now Sprint Nextel), led to the development of UMKC's high-tech Computer Science and Telecommunications Program in 1984. These programs were combined in 2001 to form the School of Computing and Engineering (SCE).

**Mission**

The mission of the School of Computing and Engineering is to provide competitive educational opportunities and focused research in computing and engineering generating the technical work force and research needed for economic development.

**Departments and Degree Programs**

The School of Computing and Engineering has two departments:

- Civil and Mechanical Engineering
- Computer Science Electrical Engineering

Each department offers undergraduate and graduate degrees. The Civil and Mechanical Engineering Department offers B.S. in Civil Engineering, B.S. in Mechanical Engineering, M.S. in Civil Engineering, and M.S. in Mechanical Engineering. The Computer Science Electrical Engineering Department offers B.A./B.S. in Computer Science, B.S. in Electrical & Computer Engineering, Bachelor of Information Technology (B.I.T), M.S. in Computer Science, and M.S. in Electrical Engineering. All undergraduate degrees are accredited by ABET, Inc. except for the B.A. in Computer Science for which accreditation has not been requested.

The School also participates in UMKC's Interdisciplinary Ph.D. program through four disciplines: computer science, electrical and computer engineering, engineering (for civil and mechanical engineering) and telecommunications and computer networking. (See the School of Graduate Studies section of this catalog for details about the Interdisciplinary Ph.D. Program.)

**Financial Assistance**

The University has several financial aid programs, scholarships and awards for the benefit of our students: see http://sfa.umkc.edu/site for opportunities available to all UMKC students. There are several School of Computing and Engineering scholarships available exclusively for SCE students. To be eligible, applicants must be accepted to both UMKC and SCE degree program. All award recipients must maintain full-time student enrollment (minimum 12 credit hours/semester for undergraduate; 9 credit hours/semester per graduate) throughout the academic year of the award.

Applications are due by January 31 for full consideration for the next fall semester's scholarship awards; however applications are accepted and kept on file year-round should additional awards become available.
available. Current SCE scholarship recipients must re-apply each year before January 31 to be considered for the next academic year. For the most current list of scholarships, qualifications and applications please visit the SCE Scholarship Web page at http://sce.umkc.edu/scholarships/sce-scholarships.asp or e-mail UMKC-SCEScholarships@umkc.edu for additional information.

SCE scholarships include:

- James E. Allen Memorial Engineering Scholarship
- Computing and Engineering Alumni Scholarship
- John and Phyllis Anderson Engineering Scholarship
- Ankit Agarwal Computer Science Scholarship Fund
- KC Metro Chapter of American Public Works Association (APWA) Scholarship
- American Society of Civil Engineers (ASCE) Scholarship
- Newton Campbell Engineering Excellence Scholarship
- Dean's Excellence Scholarship
- DST Computer Science Scholarship
- Dr. C. Quinton Bowles Memorial Scholarship
- SCE Faculty & Staff Scholarship
- SCE FIRST Robotics Scholarship
- Handmark Scholarship
- Robert C. Harmon Engineering Scholarship
- HDR Engineering Scholarship and Internship opportunity
- Richard Hetherington CS/IT Scholarship
- Hill Family Commuter
- Information Products, Inc. Engineering Scholarship
- Kansas City Power & Light Engineering Scholarship
- Kansas City Association of Healthcare Engineers (KCAHCE)
- Kiewit Engineering Scholarship
- Kristin J. Loeffelholz Memorial Engineering Scholarship
- Forrest & Joan Lowe Engineering Scholarship
- NACME Engineering Scholars Scholarship
- Project Lead the Way Scholarship
- Mahatma Gandhi Scholarship (MGS) Fund
- Doris Markham Swinney Scholarship
- Yolande & Stanley Niu Engineering Scholarship
- Mary Anne and William Osborne Scholarship
- Lee & Mary Louise Rankin Memorial Scholarship
- Jerrold Stach Memorial Scholarship
- Martin Ashton Swinney Memorial Scholarship
- Western Chapter Missouri Society of Professional Engineers Auxiliary Scholarship
- World of Difference Scholarship

Other scholarships are available through the UMKC Financial Aid and Scholarship Office. For more information, refer to http://www.sfa.umkc.edu.

Additionally, the following are available to first-time, full time degree applicants to UMKC:
The Chancellor's Nonresident Award (CNR) is available to new SCE domestic nonresident applicants. The CNR is not available to international SCE students.

The Dean's International Scholar Award (DISA) is available to new SCE international applicants.

Both CNR and DISA awards are decided when the admission decision is made; therefore, no specific application form is required. The CNR and DISA are competitive awards and awarded only to the best prepared and qualified applicants. Decisions are made on the basis of the applicant's academic record, performance and preparation in core courses, GRE and TOEFL scores, the strength of the undergraduate program and institution, and the timing of the application. CNR and DISA awards are renewable for students in good academic and disciplinary standing. Awardees must carry and complete a full load (minimum 12 credit hours/semester for undergraduate; 9 credit hours/semester for graduate) and maintain a GPA of at least 3.00 (for undergraduate students) or at least 3.50 (for graduate students). Student progress and performance is reviewed in September, February and June.

The amount of the DISA scholarship for 2012-2013 is $4,000.00/semester (Graduate) and $4,250.00/semester (Undergraduate).

For the value of the CNR award, please see http://www.umkc.edu/isao/cnr_info.htm

In addition to the CNR and DISA awards, there are assistantships.

Graduate Research Assistantships are available through various faculty conducting funded research, and information on these can be obtained from individual faculty. Most faculty with funded research programs will award research assistantships to students whose performance they have been able to observe in the classroom.

A limited number of graduate assistantships are available to fully-enrolled graduate students with excellent academic performance and solid communications skills.

Typically, awards are for quarter-time, three-eights, or half-time support, and may include tuition fee waivers. Priority will be given to students with excellent communication skills and to students in the Interdisciplinary Ph.D. program. International students who wish to be considered for a Graduate Assistantship must pass a SPEAK test, administered at UMKC's Applied Language Institute may be asked to present a simulated lecture that will be videotaped for review. Students must apply for these opportunities by sending their application materials to the Department of Civil and Mechanical Engineering (alberts@umkc.edu) or to the Department of Computer Science Electrical Engineering (griffiths@umkc.edu). International students can be considered for a Graduate Research Assistantship during their first semester of enrollment, but cannot be considered for a Graduate Assistant or Graduate Teaching Assistant position.

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Dual Degree Programs
The School of Computing and Engineering collaborates with other institutions in our dual-degree program which leads to undergraduate degrees in both a liberal arts major and a professional engineering, computer science or information technology degree. Students enter UMKC SCE following three (or four) years at their first institution. Students who follow the guidelines and meet the admission requirements will earn a degree from their first institution and a degree from UMKC following two years of study at SCE.

Students who complete the dual degree program experience the benefits of a liberal arts education, allowing them to become better communicators, develop strong study skills and explore additional academic interests, while also finishing a professional degree program.

Requirements:

Students must complete the following requirements prior to enrolling at UMKC. Additional guidance regarding specific curriculum is available for dual degree students.

- Completion of a minimum of 60 credit hours of coursework
- Cumulative GPA greater than 3.00
- Calculus through differential equations
- One year of calculus-based physics
- One semester of general chemistry
- One course in computer science

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One course in US government

Humanities and Social Sciences

Current dual-degree partnerships

Baker University, Baldwin, KS

Blackburn College, Carlinville, IL

Fontbonne University, St. Louis, MO

Maryville University, St. Louis, MO

Missouri Western State University, St. Joseph, MO
Department of Civil and Mechanical Engineering
Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 352
(816) 235-5550
Fax: (816) 235-1260
cme@umkc.edu
http://www.sce.umkc.edu/our-school/cme-department.asp

Mailing Address
University of Missouri-Kansas City
Civil and Mechanical Engineering
352 Flarsheim Hall
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Mark McClernon

Professors:
Bryan Becker, Deborah O'Bannon, Kevin Truman (Dean)

Associate Professors:
Mark McClernon (Department Chair), Trent Guess, Jerry Richardson, Ganesh Thiagarajan

Assistant Professors:
ZhiQiang Chen, Ceki Halmen, John Kevern, Greg King, Amber Stern

Assistant Teaching Professor:
Katherine Bloemker

Research Associates:  Yunkai Lu, Antonis Stylianou

Visiting Professors:
Forrest Lowe, Walter Rychlewsiki

Adjunct Faculty:
Donald Baker, Anthony Black, Larry Drbal, Patricia Funk, Bob Hanlin, Dan Justice, Mike Kelly, Bob Lambrechts, James Mahoney, Greg Muleski, Marc Richardson, Joe Soltys  Professors Emeriti:
Rudolph L. Leutzinger, Sr., Donald R. Smith, William E. Stewart, Jr.

Academic Advisors:
Jo Ann Day, Thuy Guess

Administrative Assistant:
Selena Albert
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Educational Objectives

- Students have the professional skills that prepare them for immediate employment in civil or mechanical engineering.
- Students apply the necessary problem-solving, design, and application skills for successful careers in civil or mechanical engineering.
- Students have the educational foundation and communication skills that prepare them for diverse career paths.
- Students succeed in the complex social, business, and technical environment in which their engineering contributions will be utilized.

Undergraduate Admissions

First-Time Admission

First-time college student applicants to the undergraduate program will be admitted if they obtain: (1) an ACT mathematics score of at least 25; and (2) an ACT composite score of at least 24, or a high school class rank in the upper 25 percent.

First-time college student applicants who do not meet the standard criteria but do meet UMKC general admission requirements, and have other indicators that demonstrate potential for success, may be conditionally admitted to the Civil and Mechanical Engineering Department. The student may apply for acceptance into the civil or mechanical engineering discipline after meeting the terms of the conditional admission.

High school students planning to apply to the civil or mechanical engineering program should pursue a college preparatory program that emphasizes mathematics, science and communication skills.

Re-admission

Students seeking re-admission into either civil or mechanical engineering must have been in good academic standing in the CME degree program when last enrolled, otherwise, re-admission requires a formal review by the department upon written appeal by the student.

Transfer Admission

Students with 24 or more transferrable credits (transfer students) will be admitted based upon the general UMKC transfer policy and must have completed coursework equivalent to MATH 210 Calculus I and CHEM 211 General Chemistry I with a grade of 'C' or better. The minimum overall GPA of transferrable coursework must be 2.0 or higher and is computed using all degree applicable attempts from all institutions when determining automatic admission of transfer students.
Transfer students not meeting the above criteria may be admitted based on a formal review by the departmental academic committee. A written appeal by the prospective student is required by the academic committee in order to be considered for admission.

Transfer credit of engineering courses will be accepted provided they are either from an ABET-accredited engineering program or have been approved as part of a transfer articulation agreement. All transferable coursework must satisfy the 'C' prerequisite rule.

**International Students**

International students transferring from non-ABET-accredited engineering programs are required to have the equivalent of a 2.5 cumulative GPA, with a cumulative GPA of at least 2.0 and a last-term GPA of at least 2.0 at each institution attended. GPA’s are computed using only transferable coursework (As defined below) applicable towards the civil or mechanical engineering degree.

**International Transfer Credit**

Unless the international institution is recognized by ABET, only sophomore level (200 level) or below coursework may be transferred by petition and review of the academic committee. Final acceptance of transfer credit by petition requires completion of one academic year of probation. Any identified deficiencies during that probation period will, on the review of the academic committee, require remedial coursework.

**Visiting Student Admission**

Visiting students must meet the Civil & Mechanical Engineering Department (CME) regular admission requirements. Visiting students who wish to take undergraduate civil or mechanical engineering coursework will be required to show proof of having met prerequisites to the course desired to be taken with a grade of "C" or better. Registration requires permission from the department. Enrollment of visiting students in undergraduate civil or mechanical coursework will be done the week before the start of the semester (for summer semester, registration will be done two weeks before the start of the semester) on a space available basis unless an exception is approved by the CME Department. Visiting undergraduate students cannot use the KCASE program for SCE classes.

**Scholarships**

A list of scholarships and financial aid is available on the Financial Aid webpage at http://www.sfa.umkc.edu/. Application information regarding these scholarships is available from the department office. Engineering students are also eligible to apply for SCE Scholarships (http://sce.umkc.edu/scholarships/default.asp). Information regarding these scholarships may also be obtained from the Department office.

**Advising and Registration**

The civil and mechanical engineering programs assign a faculty member to be the student’s academic adviser throughout the duration of their study. Students may request a change of adviser assignment. Students are required to meet with their faculty adviser every semester prior to registration for the following semester. The faculty adviser guides the student in selecting courses that are necessary for
completion of degree requirements, and answers questions regarding elective course programs and options. During the advising period, the faculty adviser determines whether the student is meeting degree requirements by reviewing the program advisement form. Any exceptions to the normal procedure must be approved by written petition. Specific information regarding registration is found in the UMKC Class Schedule and on the UMKC Web site.

Civil Engineering
The American Society of Civil Engineers (ASCE) defines civil engineering as "the profession in which a knowledge of the mathematical and physical sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize economically, the materials and forces of nature for the progressive well-being of humanity in creating, improving and protecting the environment, in providing facilities for community living, industry and transportation, and in providing structures for the use of humankind". The CE program aims to prepare students with a breadth and depth in the technical knowledge so that they can work immediately in most areas of the profession including geotechnical engineering; hydraulics, hydrology, environmental engineering; structural engineering; and transportation/traffic engineering.

Civil Engineering Program Description
The program offers the bachelor’s degree and the master’s degree in civil engineering and participates in the UMKC Interdisciplinary Ph.D. program. The Bachelor of Science in Civil Engineering is accredited by the Engineering Accreditation Commission of Accreditation Board for Engineering and Technology (ABET)
111 Market Place, Suite 1050
Baltimore, MD 21202-4012
(410) 347-7700
http://www.abet.org/

The Master of Science in Civil Engineering has both thesis and non-thesis options. Students interested in pursuing a doctoral degree in civil engineering may select engineering as a discipline when applying for admission into the Interdisciplinary Ph.D. program.

The civil engineering program has a rich history in Kansas City. The University of Kansas City offered a General Engineering degree in the 1950's. The master’s program in civil engineering was started in 1964 and later the undergraduate program was added in the early 1970s. Since 1977, the undergraduate program in civil engineering has been independently accredited by ABET. The program became a part of the School of Computing and Engineering (SCE) in January 2001 and is housed in Flarsheim Hall.

Civil Engineering Career Opportunities
Kansas City is one of the premier centers of engineering design in the country. Numerous civil infrastructure design and construction firms with national and international reputation are headquartered in Kansas City. This offers a unique opportunity to our students, many of whom participate actively as interns or as employees with these firms during the course of their study, thereby, getting a balanced blend of course work and practical experience.
Job opportunities abound for engineering majors. In terms of starting salaries and the number of job offers, engineering graduates compare favorably with all other graduates. In addition, the civil engineering curriculum at UMKC equips the graduate with the analytic decision-making skills necessary to pursue diverse technical, managerial and entrepreneurial career opportunities.
Program Activities
Students enjoy many group activities outside the classroom. They participate in regional and national competitions, design and erect bridges and concrete canoes, and participate in Engineers' Week activities. They have been winning their share of awards and have had fun doing it.
The School of Computing and Engineering has a number of societies open to all engineering students. These include the SCE Student Council, and the student chapters of the American Society of Civil Engineers (ASCE), the Missouri Society of Professional Engineers (MSPE), the National Society of Black Engineers (NSBE), the Society of Women Engineers (SWE) and the Structural Engineering Association of Kansas and Missouri (SEAKM). In these organizations, students have an opportunity to develop their career through association with other civil engineering students, the faculty, and active members of the profession. The chapters hold monthly meetings, field trips and other activities such as competing in the steel bridge and concrete canoe competitions. Membership is open to all engineering students.

Several national engineering honorary societies have also been established to recognize academic excellence. Tau Beta Pi is for all engineering majors. Assembly of Civil Engineering Scholars (ACES) is an honorary society for civil engineering students.

Application for Graduation
Students should apply for graduation when they register for their final semester’s course work. Requirements for graduation include the following:

1. The student’s last 30 hours must be taken at the University of Missouri-Kansas City.
2. The overall grade-point average in all enrollments in all University of Missouri course work must be at least 2.0.
3. The grade-point average in the last enrollment in all engineering course work must be at least 2.0.

A grade-point average deficiency may be removed by repeating a course or by taking additional courses that qualify as eligible electives in the curriculum.

Students are required to take the Academic Profile Test, which is a general education test, before they can graduate. This test is administered by the UMKC Undergraduate Assessment Office (816) 235-5820 and may be taken any time after the student has completed a total of 80 credit hours from any institution. The object of this test is to assess the effectiveness of university course work and the score is not part of the student’s permanent record.

Students are also required to complete a department exit interview in the last semester that they are enrolled.

Mechanical Engineering
Mechanical engineering (ME) is one of the broadest of the engineering disciplines, therefore, mechanical engineers are the generalists of the engineering profession. Mechanical engineers design, construct, test, and operate many types of mechanical, thermal and biological devices. They are involved in almost every industry, including aerospace, automotive, bioengineering, communications, electronics, energy, food processing, HVAC, manufacturing, power generation and refrigeration, as well as business, government,
and academia. The ME program aims to prepare students with a breadth and depth in technical knowledge so that they can work immediately in most of the areas of the profession.

Mechanical Engineering Program Description
The program offers the bachelor’s degree and the master’s degree in mechanical engineering and participates in the UMKC Interdisciplinary Ph.D. program. The Bachelor of Science in Mechanical Engineering is accredited by the Engineering Accreditation Commission of ABET
111 Market Place, Suite 1050
Baltimore, MD 21202-4012
(410) 347-7700
http://www.abet.org/

The Master of Science in Mechanical Engineering has both thesis and non-thesis options. Students interested in pursuing a doctoral degree in mechanical engineering may select engineering as a discipline when applying for admission into the Interdisciplinary Ph.D. program.

The mechanical engineering program has a rich history in Kansas City. The University of Kansas City offered a General Engineering degree in the 1950's. The master’s program in mechanical engineering was started in 1964 and later the undergraduate program was added in the early 1970s. Since 1977 the undergraduate program in mechanical engineering has been independently accredited by ABET. The program became a part of the School of Computing and Engineering (SCE) in January 2001 and is housed in Flarsheim Hall.

Mechanical Engineering Career Opportunities
Kansas City is one of the premier engineering centers in the country. Numerous engineering and manufacturing firms with national and international reputation are headquartered in Kansas City. This offers a unique opportunity to our students, many of whom participate actively as interns or as employees with these firms during the course of their study, thereby getting a balanced blend of course work and practical experience.
Job opportunities abound for engineering majors. In terms of starting salaries and the number of job offers, engineering graduates compare favorably with all other graduates. In addition, the mechanical engineering curriculum at UMKC equips the graduate with the analytic decision-making skills necessary to pursue diverse technical, managerial and entrepreneurial career opportunities.

Civil Engineering Specialty Areas
UMKC’s Civil Engineering Program has faculty members who are active in research with funding from numerous local and national industries and government agencies.

Research and study are available in the following specialty areas:

- Environmental and Water Resources
- Structures
- Materials
- Construction Management

For more information, visit our website at http://sce.umkc.edu.
Doctoral Studies in Civil Engineering
Civil Engineering participates in the Interdisciplinary Ph.D. program of the University of Missouri-Kansas City as part of the engineering discipline. Students interested in pursuing a doctoral degree in civil engineering may select engineering as the coordinating discipline when applying for admission into the Interdisciplinary Ph.D. Program. See the School of Graduate Studies section of this catalog for general and discipline-specific admission requirements and regulations for Interdisciplinary Ph.D. study with engineering as one of the desired disciplines.

Mechanical Engineering
Mechanical engineering (ME) is one of the broadest of the engineering disciplines, therefore, mechanical engineers are the generalists of the engineering profession. Mechanical engineers design, construct, test and operate many types of mechanical, thermal and biological devices. They are involved in almost every industry, including aerospace, automotive, bioengineering, communications, electronics, energy, food processing, HVAC, manufacturing, power generation and refrigeration, as well as business, government and academia. The ME program aims to prepare students with a breadth and depth in technical knowledge so that they can work immediately in most areas of the profession.

Mechanical Engineering Specialty Areas
UMKC’s Mechanical Engineering Program has faculty members who are active in research with funding from numerous local and national industries and government agencies.

Research and study are available in the following specialty areas:

- Biomechanics
- Materials & Manufacturing
- Thermal Sciences & Renewable Energy
- Vibrations & Controls

For more information, visit our website at http://sce.umkc.edu.

Doctoral Studies in Mechanical Engineering
Mechanical Engineering participates in the Interdisciplinary Ph.D. program of the University of Missouri-Kansas City as part of the engineering discipline. Students interested in pursuing a doctoral degree in mechanical engineering may select engineering as the coordinating discipline when applying for admission into the Interdisciplinary Ph.D. Program. See the School of Graduate Studies section of this catalog for general and discipline-specific admission requirements and regulations for Interdisciplinary Ph.D. study with engineering as one of the desired disciplines.

Graduate Academic Regulations
- With permission of the student's graduate adviser, up to six credit hours of transfer graduate coursework may be transferred from other non-University of Missouri institutions.
- With permission of the student's graduate adviser, up to 14 credit hours of transfer graduate coursework may be transferred from other University of Missouri institutions.
- However, at least 16 credit hours of graduate coursework must be taken at UMKC.
A graduate student must maintain a cumulative GPA of 3.0 for all graduate coursework taken during the course of graduate studies. Should the cumulative GPA fall below 3.0, the student will be placed on probation. A student on probation must bring the cumulative GPA to a 3.0 by the end of the next semester or face possible dismissal.

Students should apply for graduation when they register for their final semester of coursework. All students must complete and file with the Department Office both the UMKC Application for Graduation form and the Departmental Program of Study form. Students selecting the project or thesis option must also file a Departmental Report of the Master’s Examining Committee form. Students selecting the thesis option must file a Master’s Thesis Report form and have their thesis approved by the UMKC Graduate School.

**Engineering and Construction Project Management Certificate**

The Engineering and Construction Project Management Certificate is a 12 credit hour graduate certificate program offered through the School of Computing & Engineering. Engineering and construction companies are increasingly requiring project management skills for those who hold technical degrees to successfully complete projects and to be promoted in their organizations. This graduate certificate program is designed to meet this need and enable students holding a Bachelor's degree in an appropriate discipline to learn higher-level project management skills that are critical to the successful planning and completion of projects across the spectrum of engineering, construction, and related disciplines. The certificate is intended for post-baccalaureate professionals working in the Kansas City area in lower- and mid-level engineering, construction, and management positions. The certificate requires a minimum of 12 credit hours at the 5500-level or above. Students must maintain 3.0 graduate grade point average (GPA) while enrolled. Students who have a Bachelor of Science degree in Civil Engineering and who complete the Engineering and Construction Project Management Certificate courses may be eligible to have up to 12 credit hours applicable to the Master of Science degree in Civil Engineering with an emphasis in Construction Management.

**Master of Science in Civil Engineering**

The civil engineering program offers graduate students an opportunity to get a state-of-the-art education in dynamic, challenging and professionally significant specialty areas. With written approval from the faculty advisor, master’s students are allowed to take credits in other fields to encourage them to broaden their education beyond the civil engineering field. There are three degree options for earning a master's in civil engineering: coursework only, project or thesis options. For further information call (816) 235-5550 or e-mail sce@umkc.edu.

- **Master of Science with coursework only** requires the completion of a minimum of 30 credit hours of approved graduate coursework (300-level or higher). The graduate coursework must include at least 18 credit hours of 5500/5600-level courses.
- **Master of Science with project** requires the completion of a minimum of 30 credit hours, which includes 27 credit hours of approved graduate coursework (300-level or higher) and three credit hours of independent project (CIV-ENGR 5500). At least 18 credit hours must be at the 5500/5600-level. The candidate must submit a report prepared per the adviser's guidelines and present the project work in front of a three-member project examining committee.
- **Master of Science with thesis** requires the completion of a minimum of 30 credit hours, which includes 24 credit hours of approved graduate coursework (300-level or higher) and six credit hours of thesis work (CIV-ENGR 5599). At least 18 credit hours must be at the 5500/5600-level. The candidate must submit a thesis prepared per the graduate school guidelines and orally defend the thesis work in front of a three-member thesis examining committee.
A minimum of three credit hours of advanced mathematics from an approved course list is required for the M.S. degree in Civil Engineering. Exceptions are available by petition to the CME Graduate Committee.

Other specifications for students pursuing the project or thesis option:

1. The student must request to schedule a project or thesis defense in the first half of the semester in which the student plans to defend.
2. The written part of the project/thesis must be completed and given to all the committee members at least ten days prior to the defense date.
3. The defense date and an abstract must be advertised to the CME faculty and students at least one week prior to the scheduled defense date.

Master of Science in Mechanical Engineering
The mechanical engineering program offers graduate students an opportunity to get a state-of-the-art education in dynamic, challenging and professionally significant specialty areas. With written approval from the faculty advisor, master’s students are allowed to take credits in other fields to encourage them to broaden their education beyond the mechanical engineering field. There are three degree options for earning a master's in mechanical engineering: coursework only, project or thesis options. For further information call (816) 235-5550 or e-mail sce@umkc.edu.
- Master of Science with coursework only option requires the completion of a minimum of 30 credit hours of approved graduate coursework (300-level or higher). The graduate coursework must include at least 18 credit hours of 5500/5600-level courses.
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A minimum of six credit hours of advanced mathematics from an approved course list is required for the M.S. degree in Mechanical Engineering. Exceptions are available by petition to the CME Graduate Committee.

Other specifications for students pursuing the project or thesis option:

1. The student must request to schedule a project or thesis defense in the first half of the semester in which the student plans to defend.
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3. The defense date and an abstract must be advertised to the CME faculty and students at least one week prior to the scheduled defense date.
Undergraduate Academic Regulations for Civil and Mechanical Engineering

Students Transferring from Other Missouri Institutions with a Certified 42-Hour General Education Core Curriculum

Students transferring into an undergraduate engineering program with a certified 42-hour block of general education credit from another Missouri institution typically would be required to complete additional degree specific coursework for baccalaureate degrees depending on the different degree programs pursued. A student should consult with an academic adviser to obtain the specific details.

UMKC's 42-Credit Hour Certified General Education Core for Students Transferring to Another Missouri Institution

Civil Engineering students wishing to complete the 42-hour core should also consult with an academic adviser by contacting the Department Office at (816) 235-5550.

C Prerequisite Rule

A grade of "C" (2.0) or better must be earned in every course which is a prerequisite for an engineering course.

Audits

A student cannot take a course for audit and later expect to take the same course for credit in the degree program. For that reason, students must not audit any courses required in their program, unless credit has already been established. To audit an elective course, written consent from both the student’s adviser and the instructor of the course is required. After the first week of classes, a student cannot change from credit to audit or audit to credit.

Repeat of Courses

No courses taken within the University of Missouri system may be repeated if a grade of C or better has been obtained. All grades in each attempt count toward cumulative grade-point calculation.
**Petitions**

To receive an exception from stated departmental guidelines or curriculum, the student must file a petition in the Department Office. To receive transfer credit for courses taken at another institution after admission to Civil Engineering, the student must file a petition in the Department Office. If the petition is denied by the CME Academic Appeals Committee, the student may appeal the decision to the Dean of the School of Computing & Engineering.

**Withdrawals**

A student may withdraw from a course without academic assessment by completing a Drop/Add form before the deadline given in the UMKC Schedule of Classes.

The University tries to assure that students progress satisfactorily toward their goals and receive clear warning when they do not. To this end, engineering adheres to a clear policy, but provides for exceptions in unusual cases. The interest of the student is paramount.

A student is in good academic standing when term and cumulative grade-point averages (GPA) from the University of Missouri system are 2.0 or higher in courses necessary for an engineering degree. Students will be placed on academic probation if, when in good academic standing, they earn a term GPA of less than 2.0 but greater than 1.0. Students may also be placed on academic probation at the time of initial admission or readmission because they do not fully meet the minimum standards. Students earning a term GPA of less than 1.0, or a term GPA of less than 2.0 while on academic probation become ineligible for continuation of studies. The academic standing statements found at the top of semester grade reports are defined as follows:

- **Now In Good Standing** - Term and cumulative GPA greater than 2.0.
- **Now On Probation** - Term or cumulative GPA less than 2.0.
- **Academically Ineligible** - Term GPA less than 1.0 or two consecutive semesters with term or cumulative GPA less than 2.0.

When a student becomes academically ineligible, the student is not allowed to continue academic studies. Any pre-registration of course work will be canceled. In order to continue academic studies, the student must appeal to the Civil and Mechanical Engineering Department in writing.

**Now in Good Standing**

A student whose term and cumulative grade-point averages (GPA) from the University of Missouri system are 2.0 or higher, in courses necessary for an engineering degree, is in good academic standing. A term is defined as a fall semester, spring semester or summer session.
Now on Probation

A student will be placed on academic probation if, when in good academic standing, the student earns a term GPA of less than 2.0 but greater than 1.0. A student may also be placed on academic probation at the time of initial admission or readmission because the student does not fully meet the minimum requirements.

Probationary Term

After being placed on academic probation, the student’s next semester of enrollment (the probationary term) must result in the completion of at least 12 hours of course work necessary for an engineering degree. A student will be returned to good standing if, at the end of the probationary term, the student’s term and cumulative GPAs are 2.0 or higher in courses necessary for an engineering degree.

Academically Ineligible

A student will become academically ineligible if any of the following apply:

- The student receives a term GPA of less than 1.0.
- The student receives a term GPA of less than 2.0 for the probationary term.
- The student receives a cumulative GPA of less than 2.0 for the probationary term.
- The student fails to complete at least 12 hours of course work necessary for an engineering degree during the probationary term.

Satisfactory Academic Progress

Students will be expected to maintain continuous satisfactory academic progress and can be removed from the civil or mechanical engineering program after evaluation by the Civil and Mechanical Engineering Academic Committee which finds satisfactory academic progress is not being made.

Academic Appeals

If a student has become academically ineligible, the student may be allowed to continue academic studies, provided that the student successfully appeals to the Academic Appeals Committee. The primary concern of the Appeals Committee is the likelihood of the student’s future success. Accordingly, any appeal should include causes for the student’s past poor performance and reasons for expecting better performance in the future. When the Appeals Committee allows a student to re-enroll, it may set conditions such as courses to be taken, minimum grades, total hours, etc. to which the student must adhere.

If a student has become academically ineligible and wishes to enroll on a part-time basis, the student must appeal to the Academic Appeals Committee and document the reasons for part-time enrollment. Such documentation might include a written doctor’s statement for medical reasons or a written employer’s
statement for work reasons. If work is given as the reason for part-time enrollment, the following guidelines shall apply:

<table>
<thead>
<tr>
<th>Work Hours/Week</th>
<th>Minimum Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>40+</td>
<td>3</td>
</tr>
<tr>
<td>30+</td>
<td>6</td>
</tr>
<tr>
<td>20+</td>
<td>9</td>
</tr>
<tr>
<td>0-19</td>
<td>12</td>
</tr>
</tbody>
</table>

Students should apply for graduation when they register for their final semester’s course work. Requirements for graduation include the following:

1. The student's last 30 hours must be taken at the University of Missouri-Kansas City.
2. The overall grade-point average in all enrollments in all University of Missouri course work must be at least 2.0.
3. The grade-point average in the last enrollment in all engineering course work (CE, ECE, ME) must be at least 2.0.

A grade-point average deficiency may be removed by repeating a course or by taking additional courses that qualify as eligible electives in the curriculum.

Students are required to take the Academic Profile Test, which is a general education test, before they can graduate. This test is administered by the UMKC Office of Testing Services (816) 235-5820 and may be taken any time after the student has completed a total of 80 credit hours from any institution. The object of this test is to assess the effectiveness of university course work and the score is not part of the student’s permanent record.

Students are also required to complete a department exit interview in the last semester that they are enrolled.
Bachelor of Science in Civil Engineering
The Bachelor of Science in Civil Engineering prepares students with a breadth and depth in the technical knowledge so that they can work immediately in most areas of the profession including geotechnical engineering; environmental engineering; hydraulics; and structural engineering.

Engineering programs must demonstrate that their students attain:

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multi-disciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

The civil engineering curriculum requires a minimum of 126 hours of coursework and satisfies the UMKC General Education requirements.

<table>
<thead>
<tr>
<th>Total Hours 14 Year 1 Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210(a) Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211/CHEM 211L General Chemistry w/Lab</td>
<td>5</td>
</tr>
<tr>
<td>MEC-ENGR 130 Engineering Graphics w/Lab</td>
<td>3</td>
</tr>
<tr>
<td>MEC-ENGR 111 Essential Engineering</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Hours 15 Year 1 Spring Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220 Calculus II</td>
</tr>
<tr>
<td>PHYSICS 240 Engineering Physics I</td>
</tr>
<tr>
<td>COMM-ST 110 Fund. Eff. Speaking and Listening</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Hours 18 Year 2 Fall Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 225(b) English II</td>
</tr>
</tbody>
</table>

UMKC 2012-13 Computing and Engineering, School of
MEC-ENGR 270 / MATH 250 Engr. Analysis I / Calculus III 4
PHYSICS 250 Engineering Physics II 5
CIV-ENGR 275 Engineering Statics 3
MEC-ENGR 219 Computer Programming for Engineers 3
CIV-ENGR 211 The Engineering Enterprise 3
Total Hours 16 Year 2 Spring Semester Hours

MEC-ENGR 272 / MATH 345 Engr. Analys. II / Ord. Diff. Eqn. 4
CIV-ENGR 276 Strength of Materials 3
MEC-ENGR 220 Electric Circuits 3
MEC-ENGR 299 Engineering Thermodynamics 3
MEC-ENGR 285 Engineering Dynamics 3
Total Hours 16 Year 3 Fall Semester Hours

CIV-ENGR 311 The Technical Entrepreneur 3
CIV-ENGR 319 Engr. Statistics and Computation 3
CIV-ENGR 321 Structural Analysis 4
CIV-ENGR 335 Soil Mechanics 3
CIV-ENGR 351 Fluid Mechanics 3
Total Hours 15 Year 3 Spring Semester Hours

CIV-ENGR 378WI(c) CIV-ENGR Materials 3
CIV-ENGR 323 Steel Design 3
CIV-ENGR 342 Water and Wastewater Eng. 3
CIV-ENGR 357 Engineering Hydraulics 3
CIV-ENGR 467 Intro to Construction Management 3
Total Hours 17 Year 4 Fall Semester Hours

CIV-ENGR 411 Systems Design I 2
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIV-ENGR 422WI(c)</td>
<td>Reinforced Concrete</td>
<td>3</td>
</tr>
<tr>
<td>CIV-ENGR 481</td>
<td>Highway and Traffic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV-ENGR 497</td>
<td>Engineering Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CIV-ENGR 4XX(d)</td>
<td>CIV-ENGR Elective</td>
<td>3</td>
</tr>
<tr>
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<td>CIV-ENGR Elective</td>
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<tr>
<td></td>
<td><strong>Total Hours 15 Year 4 Spring Semester Hours</strong></td>
<td></td>
</tr>
<tr>
<td>CIV-ENGR 412</td>
<td>Systems Design II</td>
<td>3</td>
</tr>
<tr>
<td>CIV-ENGR 4XX(d)</td>
<td>CIV-ENGR Elective</td>
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<td></td>
<td>General Education(e)</td>
<td>3</td>
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<td></td>
<td><strong>Constitution Req: POL-SCI 210/HISTORY 101/HISTORY 102/HISTORY 360R</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours 126</strong></td>
<td></td>
</tr>
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</table>

Note: Civil engineering students must complete three (3) applied skills requirements before the start of their junior year. (Machine Shop Safety class must be completed prior to using any tools in university sponsored activities and facilities.)

(a) Prerequisite: Four units of high school math including trigonometry; or MATH 120; or MATH 110 and MATH 125.
(b) Prerequisite: ACT English score of 30; or SAT Verbal score of 630; or AP English Lang/Comp score of 4; or ENGLISH 110.
(c) Written English Proficiency Test (WEPT) required before enrollment. Contact English Department for details.
(d) Two of the four CIV-ENGR electives must be technical. CIV-ENGR electives must be approved by a faculty advisor.
(e) English, ComStudies, Philosophy or Foreign Language 2XX level or above.

**Bachelor of Science in Mechanical Engineering**

The Bachelor of Science in Mechanical Engineering prepares students with a breadth and depth in technical knowledge so that they can work immediately in most areas of the profession.

**Engineering programs must demonstrate that their students attain:**

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multi-disciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
• The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
• A recognition of the need for, and an ability to engage in life-long learning.
• A knowledge of contemporary issues.
• An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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Total Hours 14 Year 1 Fall Semester Hours

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Total Hours 18 Year 2 Fall Semester Hours

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<td>Engineering Statics</td>
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<td>Electric Circuits</td>
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</table>
MEC-ENGR 299  Engineering Thermodynamics  3
MEC-ENGR 285  Engineering Dynamics  3

Total Hours 17 Year 3 Fall Semester Hours

CIV-ENGR 319  Engr. Statistics and Computation  3
MEC-ENGR 324  Engineering Materials w/Lab  4
CIV-ENGR 351  Fluid Mechanics  3
MEC-ENGR 352WI(c)  Instr. and Meas. Lab I  4
MEC-ENGR 360  Thermal System Design  3

Total Hours 15 Year 3 Spring Semester Hours

MEC-ENGR 306  Computer-Aided Engineering  3
MEC-ENGR 362  Instr. and Meas. Lab II  3
MEC-ENGR 380  Manufacturing Methods  3
MEC-ENGR 385  System Dynamics  3
MEC-ENGR 399  Heat and Mass Transfer  3

Total Hours 15 Year 4 Fall Semester Hours

MEC-ENGR 415  Feedback Control Systems  3
MEC-ENGR 456  Mech. Component Design  3
MEC-ENGR 4XX(d)(e)  MEC-ENGR Technical Elective or Energy System Design Requirement  3
CIV-ENGR 311  The Technical Entrepreneur  3

Constitution Req: POL-SCI 210/HISTORY 101/102/360R  3

Total Hours 16 Year 4 Spring Semester Hours

MEC-ENGR 496WI(c)  Mechanical Design Synthesis  4
MEC-ENGR 4XX(d)(e)  MEC-ENGR Technical Elective or Energy System Design Requirement  3
MEC-ENGR 4XX(d)  MEC-ENGR Elective  3
MEC-ENGR 4XX(d)  MEC-ENGR Elective  3
General Education(f)  3

Total Hours 126
Note: Mechanical engineering students must complete three (3) applied skills requirements before the start of their junior year. (Machine Shop Safety class must be completed prior to using any tools in university sponsored activities and facilities.)

(a) Prerequisite: Four units of high school math including trigonometry; or MATH 120; or MATH 110 and MATH 125.
(b) Prerequisite: ACT English score of 30; or SAT Verbal score of 630; or AP English Lang/Comp score of 4; or ENGLISH 110.
(c) Written English Proficiency Test (WEPT) required before enrollment. Contact English Department for details.
(d) Three MEC-ENGR technical electives required and must be approved by a faculty advisor.
(e) One ESD course required. MEC-ENGR 440 Heating and Air Conditioning or MEC-ENGR 451 Power Plant Design fulfills this requirement.
(f) English, ComStudies, Philosophy or Foreign Language 2XX level or above.

Graduate Admissions

Engineering and Construction Project Management Certificate

The Engineering and Construction Project Management Certificate is a 12 credit hour graduate certificate offered through the School of Computing & Engineering at the University of Missouri-Kansas City. The certificate is especially appropriate for post-baccalaureate working professionals in the Kansas City area who wish to pursue further studies in engineering project management, specifically in construction management. The certificate consists of 9 credit hours of required courses and 3 credit hours of an elective course at the 5500-level or above. Students must maintain 3.0 graduate grade point average (GPA) while enrolled.

Admission Requirements

Either a baccalaureate degree in engineering or a baccalaureate degree in another field combined with construction-related work experience is required. A grade point average (GPA) of at least 3.0 in the last 60 credit hours of undergraduate coursework is required. Pre-program requirements may be specified in case the Bachelor's degree is not in civil or mechanical engineering. The following documents are required for admission consideration:

- Application for admission
- Official transcripts of all college coursework

In addition, a statement of purpose is required for admission.

CONDITIONAL admission may be granted when minimum GPA requirements are not met; however, other indicators promise applicant's success in the program.

After admission, the student is required to meet with a faculty advisor.
Master's Program in Civil or Mechanical Engineering

The UMKC Civil & Mechanical Engineering Master's Programs offer graduate students the opportunity to get a state-of-the-art education in dynamic, challenging and professionally significant specialty areas.

Degrees Offered

- Master of Science in Civil Engineering (MSCE)
- Master of Science in Mechanical Engineering (MSME)

Assistantships

The school has numerous assistantship positions available each semester. Typically, awards are for quarter-time or half-time support and may include tuition fee waivers.

Admission Requirements

A baccalaureate degree in civil or mechanical engineering or related disciplines with a grade point average (GPA) of at least 3.0 in the last 60 hours of undergraduate engineering coursework is required. Pre-program requirements may be specified in case the Bachelor's degree is in a discipline different to which the candidate is applying.

The following documents are required for admission consideration:

- Application for admission
- Official transcripts of all college coursework
- TOEFL scores are required for international students without prior U.S. degrees. The minimum required score is 80. TOEFL requirements may be waived for applicants with a baccalaureate degree from an ABET accredited program.
- Official results of the Graduate Record Exam (GRE) are required for all applicants. A cumulative score of at least 302 (verbal + quantitative) and a minimum of 158 on the quantitative portion of the examination is required. GRE requirements may be waived for applicants with a baccalaureate degree from an ABET accredited program who have passed the Fundamentals of Engineering (FE) exam.

In addition, three letters of recommendation from professors at previous institutions or mentors at work are highly encouraged.

CONDITIONAL admission may be granted when the minimum GPA and GRE requirements are not met; however, other indicators promise applicant's success in the program. To be fully admitted as a "Regular Master's Degree Seeking" student, the candidate must obtain a grade of "B" or better in the first nine-hours of coursework; submit a satisfactory GRE score or an FE certificate, as specified above, within the first semester of their program; and complete any other conditions.

International Students: Use the international application form and return the application, along with required supporting materials, to the University of Missouri-Kansas City, Office of International Student Affairs, 5100 Rockhill Road, Kansas City, MO 64110-2499, USA. The telephone number is (816) 235-1113.
After admission, the student is required to attend a departmental orientation session and meet with a faculty advisor.

**Doctoral Program in Civil or Mechanical Engineering**

For the Doctoral Program in Civil or Mechanical Engineering, admission information can be found at the School of Graduate Studies website under the link for prospective students: [http://sgs.umkc.edu](http://sgs.umkc.edu). The telephone number is (816) 235-1111.

UMKC offers an Interdisciplinary Ph.D. (IPHD) program which consists of two disciplines:

- Primary Discipline
- Co-Discipline

Students in civil or mechanical engineering are encouraged to choose *Engineering* as the Primary Discipline. Admission requirements and Co-Discipline options can be found at the School of Graduate Studies website under the link for *Engineering*. 
Department of Computer Science & Electrical Engineering
Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 546
(816) 235-1193
Fax: (816) 235-5159
csee@umkc.edu
http://see.umkc.edu/our-school/csee-department.asp

Mailing Address
University of Missouri-Kansas City
Department of Computer Science Electrical Engineering
546 Flarsheim Hall
5100 Rockhill Road
Kansas City, MO 64110-2499

Chair:
Ghulam Chaudhry

Curators' Professor:
Khosrow Sohraby, Deep Medhi

Professors:
Ghulam M. Chaudhry (Chair), Lein Harn, Vijay Kumar, Xiaojun Shen, Appie van de Liefvoort

Research Professor:
Mary Lou Hines Fritts (CIO and Vice Provost for Academic Programs)

Professor Emeritus:
Richard Hetherington

Associate Professors:
Cory Beard, Baek-Young Choi, Deb Chatterjee, Masud Chowdhury, Reza Derakhshani, Deendayal Dinakarpandian, Yijie Han, Jerome Knopp, Yuguang Lee, Ken Mitchell, Jerry Place (Associate Dean of Academics)

Associate Teaching Professor:
Judy Mullins

Assistant Professors:
Praveen Rao, Yang (Cindy) Yi, Yongjie Zheng

Assistant Teaching Professors:
Eddie Burris, Robert Cotter, Brian Hare, Kevin Kirkpatrick
Instructors: Michael Kelly, Dr. Jesse Sherwood

Adjunct/Affiliate Faculty:
Mark Hoffman (Cerner)

Adjunct Instructors:
Assistant Professor Emeritus:
David Skitek

CSEE Administrative Staff:
Coretta Carter-Muhammad
Debby Dilks
Sharon Griffith
Nan Lorenz

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**Department Description**
The CSEE Department has 29 full-time faculty members, including two Curators' professors, a UMKC Trustee's professor and one Fulbright Senior Specialist. Our faculty is at the forefront in research with funding from NSF and industries. We have strong partnerships with:

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Most of our corporate supporters are headquartered in the Kansas City area. Additionally, within UMKC, there are ongoing collaborations with other schools. In the life sciences area, we have partnerships with life and health sciences schools at UMKC and life sciences partners in the Kansas City area through the Kansas City Area Life Sciences Institute (KCALSI).

We have research and teaching strengths in the following areas:

- Networking and Telecommunications (design, protocols, routing, security, teletraffic modeling and analysis, monitoring, performance modeling, RF/wireless communication, optical, mobile computing, sensors, queueing theory, etc.).
- Software Engineering and Systems (object-oriented design and analysis, database/information management, middleware, intelligent agents, peer-to-peer)
computing, mobile databases, data mining, knowledge discovery, intrusion detection, etc.).

- Biomedical Informatics (machine learning and data mining methods for biological and medical data, modeling biological systems, biomedical information representation and sequence & structural analyses of biomolecules).
- Communications, Signal and Image Processing (digital signal processing, computational electromagnetics, RF and antenna theory and design, biomedical image processing, biometrics, neural networks, etc.).
- Computer Engineering (VLSI and mixed-signal chip design, performance and design of low power devices (including memories), embedded systems, System-On-Chip (SOC) and ASIC/FPGA design).
- Algorithms (complexity, distributed and parallel computations, graph, optimization, and combinatorial algorithms).
- Power Engineering

The CSEE department is committed to excellence in teaching. We stay on the top of the technology curve and continually offer new courses in emerging/hot topics. Our graduates are sought after by regional as well as national companies.

Approximately 700 students were enrolled in the CSEE department in the fall 2011 semester: 400 at the undergraduate level (all degree programs), 300 at the masters level (both CS and EE), and 40 students participated in UMKC's Interdisciplinary Ph.D. program through a discipline in CSEE.

Advising & Registration

For advising in regard to their degree programs, students need to contact the CSEE Department Office. Each student is assigned a faculty and staff adviser. The goal is to have the same faculty and staff member be the student's academic advisers throughout the duration of his/her study. Students are required to meet with their faculty and staff adviser every semester prior to registration for the following semester. The student may call the CSEE Department office to schedule this appointment. The faculty adviser guides the student in selecting courses that are necessary for completion of degree requirements and answers questions regarding elective course programs and options as well as giving career guidance. The staff adviser assists students with day-to-day university operations in admissions, registration and records guidance. During the advising period, the faculty adviser determines whether the student is meeting degree requirements by reviewing the program advisement form. The staff adviser reviews the Degree Audit Report (DARS) and determines if the student is meeting the university requirements. Any deviations by a student are corrected immediately. Specific information regarding registration is found in the UMKC Class Schedule found in Pathway and on the UMKC Web site at www.umkc.edu/registrar.

Student Organizations

CSEE encourages every student to actively participate in a student organization that matches his or her interests. The SCE Student Council addresses the needs of the students within the School of Computing and Engineering. These organizations include:
SCE Student Council, who represents, supports and provides an orderly method for government for all students enrolled in the School of Computing and Engineering.

ACM (Association for Computing Machinery) is the leading professional organization in Computer Science and Information Technology and its student chapter is very active. Among others, it sponsors and participates in numerous programming and web design contests.

AITP (Association of Information Technology Professionals) caters to the interest of both information technology students and business students. Their office is in the Henry W. Bloch School of Business and Public Administration.

IEEE is the world's leading professional association for the advancement of technology. As such, many (if not most) electrical and computer engineers, computer scientists, and information technology professionals are members of IEEE. Our student chapter, one of 452 branch chapters, won the prestigious Region 5 RAB Student Branch Membership Growth and Leadership Award in 2004, the Region 5 Student Branch Web Site Contest in 2005 and was Runner Up in the IEEE International Student Branch Web Site Contest, also in 2005. Individual students have also received various other IEEE Region 5 awards in 2007 and 2010. The student chapter of IEEE also sponsors our robotics team and are involved in several outreach activities throughout the year.

Eta Kappa Nu is the Honor Society in Electrical and Computer Engineering. The student chapter at UMKC, Theta Pi, was installed in 1980.

Upsilon Pi Epsilon is the International Honor Society for the computing and information discipline. A UPE student chapter was founded in 2004. They organize field trips to local organizations and industries with a strong CS/IT presence. In addition, they provide tutoring assistance to undergraduate students.

**Undergraduate Academic Regulations**

All students pursuing an undergraduate degree in the Department of CSEE, i.e. the Bachelor in Information Technology (IT), B.A. in Computer Science (CS), B.S. in CS, or B.S. in Electrical and Computer Engineering (ECE), must follow all academic regulations as specified in the following sections. For a student to complete the degree in four years, it is imperative that the student takes approximately 15 credit hours worth of coursework each semester (not including summer). The 4-year program samples shown for each degree can be found in the UMKC Major Maps. http://sfa.umkc.edu/majormaps/ They are intended as a planning guideline for students. For a student wanting to complete both an undergraduate degree and a graduate degree in five years, they should consult the appropriate section on our Fast Track Program.

The University tries to assure that students progress satisfactorily toward their goals and receive clear warning when they do not. To this end, this academic program adheres to a clear policy, but provides for exceptions in unusual cases. The interest of the student is paramount.
Good Academic Standing

A student is in good academic standing when term grade-point average (T-GPA), cumulative grade-point average (C-GPA), and grade-point average in courses necessary for their degree program (D-GPA) from the University of Missouri system are all 2.0 or higher. If a student starts a semester in good academic standing, and receives a T-GPA or D-GPA less than 2.00 (but higher than 1.00), then the student is placed on academic probation. If a student starts a semester in good academic standing, and receives a T-GPA or D-GPA less than 1.00, then the student becomes ineligible to continue their degree objective.

Academic Probation

A student who is placed on probation must return to good academic standing in one or two semesters, under the following restrictions: If the T-GPA, D-GPA, and C-GPA are all 2.0 or higher at the end of the first probationary semester, then the student is returned to Good Academic Standing. If the T-GPA is 2.0 or higher for the first probationary semester, then the student will be allowed to enroll for a second and final probationary semester. If the T-GPA is less than 1.0, the student becomes ineligible to continue their degree objective. Note: Students may also be placed on academic probation at the time of initial admission or readmission because they do not fully meet the minimum standards.

Academic Ineligibility

Students become ineligible to continue their degree objective if either T-GPA or D-GPA is less than 1.0, or if the T-GPA is less than 2.0 in a probationary semester.

Grade Reports

The academic standing statements found at the top of semester grade reports are only calculated from T-GPA and C-GPA (the D-GPA is not incorporated and will be calculated by your adviser) and are defined as follows:

- Now In Good Standing - Term and cumulative GPA greater than 2.0.
- Now On Probation - Term or cumulative GPA less than 2.0.
- Academically Ineligible - Term GPA less than 1.0 or two consecutive semesters with term or cumulative GPA less than 2.0.

Please see the Request for GPA Adjustment Form available at the Registrar's website about retaking a course for which a D+ or less was earned.
A student cannot take a course for audit and later expect to take the same course for credit in the degree program. For that reason, students must not audit any courses required in their program, unless credit has already been established.
To audit an elective course, written consent from both the student's adviser and the instructor of the course is required. After the first week of classes, a student cannot change from credit to audit or audit to credit.

A student enrolling in any UMKC course is expected to exhibit high standards of academic honesty in all works, and are expected to refrain from cheating and plagiarism. Rules governing any suspected violation are clearly spelled out elsewhere in the UMKC catalog. Instructors are obligated to report any cases of
suspected academic dishonesty, and any violation will result in sanctions being imposed on the student, ranging from a warning, probation, loss of financial aid, loss of privileges, suspension, and dismissal. Please note that both receiving and giving unauthorized assistance is considered academically dishonest. Any exception to academic policy and regulations regarding the degree requirements (e.g. transfer courses taken elsewhere, course waivers, waivers of residency) must be requested through a written petition. The petition form is available from the CSEE Department Office. The completed petition that includes an explanation for the petition should be submitted to the CSEE Department Office with any necessary documents attached. The Degree Program Coordinator or his/her designee will review such petitions and will communicate the result to the student.

For students to obtain an undergraduate degree in the Department of CSEE, they must have passed the courses as specified in various categories under the header Curriculum Requirement for the desired degree, B.I.T, B.A. in CS, B.S. in CS, or B.S. in ECE. In addition, there are a number of University-wide degree requirements and a number of restrictions that apply:

1. ENGLISH 299 does not count towards the degree requirements.
2. A minimum of 36 credit hours from junior/senior level courses must be included.
3. The GPA from all courses attempted at the University of Missouri must be at least 2.0.
4. The GPA from all courses attempted in the major must be at least 2.0.
5. Can count individual coursework in CS, ECE, or IT toward the degree if at least a C (2.0) is earned.
6. Can transfer individual coursework in CS, ECE, or IT toward the degree if the student received at least a C (2.0), and the coursework is from an ABET accredited degree program in either computing or engineering or if the coursework is part of a transfer articulation agreement.
7. The final 30 consecutive credit hours of coursework must be taken at UMKC.
8. Participation in University-sponsored assessment tests is a prerequisite for graduation; and exit interview may also be required.

Students who have completed 90 hours of credits should file an application for graduation and make an appointment for a degree check. Appointments may be made by calling (816) 235-1193. Students who are pursuing a second undergraduate degree or a second major must complete a minimum of 30 additional credit hours from UMKC, of which a minimum of 12 credit hours are from junior/senior level courses.

Program Description: Bachelor of Information Technology
The Bachelor in Information Technology is accredited under the General Criteria and the Information Technology Program Criteria by the Computing Accreditation Commission of

ABET
111 Market Place
Suite 1050
Baltimore MD 21202-4012
telephone: (410) 347-7700
http://www.abet.org

The use of computers in commerce and industry keeps the college educated IT professional at the forefront of occupational demand. The Bachelor of Information Technology (B.I.T.) program prepares for a career path where the student contributes to the continued deployment of technology infrastructure, (operating systems, browsers, applications, softwares, networking, etc.). It blends both CS, IT, and Business coursework and requires an internship for the completion of the degree. The degree is accredited
The degree of Bachelor in I.T. is designed so that graduates will attain employment in an IT related field. Some graduates will achieve appropriate certifications and/or will pursue advanced study in business, IT or other fields. Graduates will be engaged in lifelong learning and thereby advance in their careers. There remains a large and growing number of unfulfilled IT positions both nationwide and within the Kansas City area. B.I.T. graduates are typically employed as software developers, network specialists, web developers, information system operators, programmer analysts, digital media specialists and database administrators. The need of the future is for students with an analytic and problem solving mindset who are able to adapt quickly to an ever-changing environment.

Program Description: Bachelor of Science and Bachelor of Arts in Computer Science

The Bachelor of Science in Computer Science is accredited under the General Criteria and the Computer Science Program Criteria by the Computing Accreditation Commission of:

ABET
111 Market Place
Suite 1050
Baltimore MD 21202-4012
telephone: (410) 347-7700
http://www.abet.org

Please note that accreditation for the Bachelor of Arts in Computer Science (BACS), which we also offer, has not been requested.

These degree programs serve to give the student excellent preparation for careers in computer science, for graduate study, or for fields where CS is an important ingredient. Students receive a strong technical background in computer science, which is coupled with a broad, general education. The BS degree prepares for a career path where the student contributes to the continued development of technology infrastructure, (operating systems, browsers, applications, softwares, networking, etc). The BA degree prepares for a career path where the student contributes to advancing infrastructures tailored for specific areas, often outside the core areas of computer science. A Fast Track Option for completing both a BS in CS and a MS in CS in five years is available, (see below). Furthermore, a minor in Computer Science is available as well.
Contact info: (816) 235-1193, or see our web page mailto:csee@umkc.edu

The faculty of CSEE approved several changes effective in the fall of 2012 for the degrees of BA in CS, the BS in CS, and the Bachelor of IT in reaction to feedback received from constituents and an analysis of assessment data. These changes center on a modernization of the curriculum and help to better prepare students for careers in computer science and information technology. Students who started their degree program prior to the fall 2012 term have the option to complete the degree requirements in effect at the time they first started their program, switch to the requirements in effect when they graduate, or petition to combine aspects of both. Please consult with your advisor for full details.
The undergraduate degrees in CS are designed so graduates will attain employment and advance their careers in industry, government and academia. BS students find employment in CS related fields, and BA students will find employment in fields where computing is an important ingredient. Some graduates will achieve appropriate certifications and/or pursue advanced study in computer science or other graduate fields. Graduates will be engaged in lifelong learning and thereby advance in their careers.

Computers and processors of all sizes and descriptions appear in every area of the public and private sectors. Consequently, employment prospects for computer science degree holders remain steady. Current projections have the demand for computer science graduates exceeding the supply for many years to come. The range of opportunities open to the new graduate in computer science is impressive.

Computer science graduates are employed as members of technical staffs, software engineers, programming or systems analysts, and scientific or applications programmers by some of the nation's largest companies. These companies include internet based commerce and software based hi-tech industries, insurance, banks and financial institutions, computer and electronics manufacturers, the communications industry, the defense industry, and engineering firms.

**Program Description: Bachelor of Science in Electrical and Computer Engineering**

The Bachelor of Science in Electrical and Computer Engineering is accredited under the General Criteria and the Electrical and Computer Engineering Program Criteria by the Engineering Accreditation Commission of ABET.

ABET
111 Market Place
Suite 1050
Baltimore MD 21202-4012
telephone: (410) 347-7700
http://www.abet.org/

The ECE degree program is designed to provide the key elements of both an electrical engineering and a computer engineering curriculum. It also provides additional courses that involve the business and entrepreneurial aspects of engineering. Graduates of this program are prepared for larger breadth in job opportunities than are typically available in a traditional electrical engineering program. A Fast Track Option for completing both a BS in ECE and a MS in EE in five years is available, (see below). For additional information or an advising appointment, please contact our office by phone (816) 235-1193 or e-mail to mailto:csee@umkc.edu.

The undergraduate degree in ECE is designed so that graduates will attain employment in electrical and/or computer engineering and advance their careers in this field or areas such as business and law. Some graduates will become registered professional engineers and/or pursue advanced studies.

Job opportunities abound for engineering majors. In terms of starting salaries and the number of job offers, engineering graduates compare favorably with other engineering graduates. In addition, the ECE
The curriculum at UMKC equips the graduate with the analytical decision-making skills necessary to pursue diverse technical, managerial and entrepreneurial career opportunities.

CSEE Graduate Programs
The Department of Computer Science Electrical Engineering offers a Master of Science in Computer Science (MS-CS) and Master of Science in Electrical Engineering (MS-EE). Also, our department houses three disciplines in support of the Interdisciplinary Ph.D. program of UMKC:

- Computer Science
- Electrical and Computer Engineering
- Telecommunication and Computer Networking

For more information on the doctoral program, see the description Interdisciplinary Ph.D. Program in the School of Graduate Studies section of this catalog.

Program Description: Master of Science in Computer Science
The University of Missouri-Kansas City has created an exciting and uniquely designed program of graduate study in computer science. Significant changes are always occurring within this discipline in recent years and our graduate program in computer science reflects those changes, providing in-depth education in the new technology and skills most in demand in this growing industry.

The UMKC graduate student has the unique opportunity to get a concentrated state-of-the-art education in some of the most dynamic, challenging and professionally significant specialty areas. This is made possible by unusual advantages which the UMKC program possesses:

- An interdisciplinary approach to new technology.
- Faculty who are each actively pursuing research in these areas.

Students can earn an M.S. degree in computer science with an emphasis or concentration in:

- Bioinformatics
- Database and Information Management
- Networking and Telecommunications
- Software Engineering and Systems

Many courses are offered in these emphasis areas. Contact us for more information by phone: (816) 235-1193 or send an e-mail mailto:csee@umkc.edu

Program Description: Master of Science in Electrical Engineering
The University of Missouri-Kansas City has created an exciting and uniquely designed program of graduate study leading to the master of science in electrical engineering. This degree offers several options: thesis or non-thesis, with the latter available with an electric power focus area. In the thesis option, the student has the opportunity to engage in research that builds upon coursework to reach the forefront in the chosen area. This degree option prepares graduates for a wide variety of future opportunities, whether it be in corporate research, product development, management or entrepreneurial endeavors. It also prepares graduates for doctoral studies. The overall goal is to put graduates into a position to be leading technology developers and
innovators. The non-thesis option provides the student opportunities to study topics such as wireless communications, signal processing, computer architectures, digital systems, VLSI design, embedded system design, low-power chip design, image processing, computational electromagnetics, antenna theory, computer networking and neural networks. Alternately, the student can select the electric power focus, designed to fit easily into the schedule of full-time working engineers. The specialty has been developed in coordination with industry, engineering firms and utilities. Contact info: (816) 235-1193, csee@umkc.edu.

**Doctoral Studies in Computer Science or Electrical Engineering**

The Department of Computer Science Electrical Engineering also participates in the Interdisciplinary Ph.D. program of the University of Missouri-Kansas City. This program is administered through the School of Graduate Studies at the University of Missouri-Kansas City and requires a student to select both a coordinating discipline and a co-discipline. Many doctoral students choose both coordinating and co-disciplines in our department or the School of Computing and Engineering, but other disciplines can be taken as well. Three such disciplines are housed in our department:

- Computer Science
- Electrical and Computer Engineering
- Telecommunication and Computer Networking

These were formerly known as computer networking, software architecture and telecommunications networking. See the School of Graduate Studies section of this catalog for details about the Interdisciplinary Ph.D. program.
Bachelor of Information Technology

Prior to graduation, students will develop a sound analytical mindset based in a foundation of algorithmic principles and computer science theories. They will demonstrate a basic understanding of the necessary technologies and tools that pertain to the construction of software processes, components, or programs of varying complexity to solve problems. They will demonstrate the ability to develop and deploy computer systems in a user oriented environment, and work effectively on teams to manage system development projects. They will understand their professional, ethical and social responsibilities and communicate effectively with a range of audiences. They will recognize the need for, and will be able to engage in, continuing professional development.

In particular, they will apply the core technologies from computer science and information technology when solving problems in such areas as:

- Software development
- Network operation and administration
- Digital media
- Database administration
- Web engineering

They will develop an in-depth understanding of the business context where these technologies will be employed and will have appropriate business experience through the internship program.

High school students planning to apply to the information technology program are strongly urged to take a college preparatory program that emphasizes mathematics, science and communication skills.

First-time college student applicants to the undergraduate program in information technology will be admitted if they obtain:

- An ACT mathematics score of at least 25 and
- An ACT composite score of at least 24 or
- a high school class rank in the upper 25 percent.

First-time college student applicants who do not meet the above criteria but do meet UMKC general admission requirements may be admitted on probation or into the University College.

Students without the prerequisite preparation must take the needed coursework before enrolling in courses required for the bachelor's degree. Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the undergraduate program committee.

Transfer students (i.e., from community colleges) will be admitted provided they have at least a 2.0 cumulative GPA; however, a higher GPA is strongly recommended for students pursuing this rigorous degree program. Their coursework is accepted for transfer credit per university-wide policy, but will replace degree requirements only if a grade of C or higher is obtained and if either their content is equivalent to course requirements of the degree program/courses at the University of Missouri-Kansas City or the transfer is approved as part of a transfer articulation agreement. Not all courses taken at other institutions will transfer, and if they transfer, they might not satisfy specific degree requirements. Students taking courses at other institutions are
welcome (and encouraged) to check the transferability of coursework before taking these courses at the home institution.

Coursework requirements for the B.I.T. degree are categorized into several areas totaling at least 120 hours of study.

**Computer Science/Information Technology (49 Hours)**
- COMP-SCI 101 Prob. Solv. & Prog I
- COMP-SCI 111 Intro to CS
- COMP-SCI 191 Discrete Structures I
- COMP-SCI 201R Prob. Solv & Prog II
- COMP-SCI 201L Prob. Solv & Prog II Lab
- COMP-SCI 281R Intro to Computer Architecture
- COMP-SCI 291 Discrete Structures II
- COMP-SCI 303 Data Structures
- COMP-SCI 304WI Ethics and Professionalism
- COMP-SCI 431 Intro. to Operating Systems
- COMP-SCI 470 Intro. to Database Mgmt. Systems
- or-
- COMP-SCI 371 Database Design, Implementation & Validation
- INFO-TEC 222 Multimedia Production & Concepts

INFO-TEC 321 Intro. to Computing Resources Admin.
INFO-TEC 350 Object Oriented Software Development

INFO-TEC Course Specialty I*
INFO-TEC Course Specialty II*
INFO-TEC Course Specialty III*
*See adviser for course options

**General Education Synthesis (6 Hours)**
- COMP-SCI 449 Fund. of Software Engr.
- COMP-SCI 451R Software Engineering Capstone

**Anatomy of Business (15 Hours)**
- ACCTNG 210 Principles of Accounting
- MKT 324 Elements of Marketing Concepts
- DSOM 326 Operations Management

Business Electives:
(Choose two of the following)
- MGT 306, MGT 330, FIN 325, ENT 215, CE 311

**Life and Physical Sciences (8-10 Hours)**
- One Life Science
- One Physical Science
  To include at least one laboratory component

**Mathematics (7 Hours)**
- MATH 210 Calculus I
- STAT 235 Statistics

**Social and Behavioral Sciences (9 Hours)**
- HISTORY 101, 102, 360R or POL-SCI 210
(Meets MO constitution requirement)
ECON 202 Introduction to Economics II
Elective: Criminal Justice, Geography, Economics, History,
Political Science, Psychology, Social Science or Sociology

Communicating (9 Hours)
ENGLISH 110 Freshman English I
ENGLISH 225 Freshman English II
COMM-ST 110 Fundamentals of Speech

WEPT

Humanities and Fine Arts (6 Hours)
Elective: Art/Art History, Communications Studies (above 110), Conservatory, English Literature,
Foreign Language (not native language to student), Philosophy or Theater

Internship Requirement (3 Hours)
Students with appropriate CS/IT business experience may petition to replace the internship
requirement with a 3 credit hour senior CS/IT course.

General Electives (9-10 Hours)

Total Minimum Requirement: 120 hours

B.I.T. students may take courses from the following speciality areas:

Networking
INFO-TEC 321, COMP-SCI 420, COMP-SCI 421 or COMP-SCI 490NA.

Programming
INFO-TEC 350, COMP-SCI 461, COMP-SCI 423, COMP-SCI 456 or COMP-SCI 475.

Other courses are routinely available as special topics courses, such as INFO-TEC 490. Please
see your adviser or check the actual course offerings.

For suggested four year plans, please see the registrar’s website: http://www.sfa.umkc.edu/majormaps/
Bachelor of Science/Bachelor of Arts in Computer Science

Prior to graduation, students will develop a sound analytical mindset based in a foundation of mathematics, algorithmic principles, computer organization, and computer science theories. They will use current technologies, skills and tools necessary to design and implement system components under realistic constraints to solve problems of varying complexity. They will work effectively on teams to manage system development projects. They will understand their professional, ethical and social responsibilities and communicate effectively with a range of audiences. They will recognize the need for, and are able to engage in, continuing professional development.

In particular, they will apply the core technologies from computer science when solving problems in such areas as

- Networking
- Data structures and algorithms
- Software development and systems
- Operating Systems

They will have had an opportunity to concentrate their coursework in computer networking, software systems or bioinformatics.

High school students planning to apply to the computer science program are strongly urged to take a college preparatory program that emphasizes mathematics, science and communication skills.

First-time college student applicants to the undergraduate program in computer science will be admitted if they obtain:

An ACT mathematics score of at least 25 and
An ACT composite score of at least 24 or
a high school class rank in the upper 25 percent.

First-time college student applicants who do not meet the above criteria but do meet UMKC general admission requirements may be admitted on probation or into the University College.

Students without the recommended preparation must take prerequisite coursework in order to prepare for enrollment in courses required for the bachelor's degree.

Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the undergraduate program committee.

Transfer students (i.e., from community colleges) will be admitted provided they have at least a 2.0 cumulative GPA; however, a higher GPA is strongly recommended for students pursing this rigorous degree program. Their coursework is accepted for transfer credit per university-wide policy, but will replace degree requirements only if a grade of C or higher is obtained and if either their content is equivalent to course requirements of the degree program/courses at the University of Missouri-Kansas City or the transfer is approved as part of a transfer articulation agreement. Not all courses taken at other institutions will transfer, and if they transfer, they might not satisfy specific degree requirements. Students taking courses at other institutions are welcome (and encouraged) to check the transferability of coursework before taking these courses at the home institution.
Coursework requirements for the Computer Science degrees are categorized into several areas totaling at least 120 hours of study.

**Computer Science (BA)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP-SCI 101</td>
<td>Prob. Solv. &amp; Prog. I</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 111</td>
<td>Intro to Computing</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 191</td>
<td>Discrete Structures I</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 201R</td>
<td>Prob. Solv. &amp; Prog. II</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 201L</td>
<td>Prob. Solv. &amp; Prog. II Lab</td>
<td>1</td>
</tr>
<tr>
<td>COMP-SCI 281R</td>
<td>Intro to Computer Arch. &amp; Organ.</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 282</td>
<td>Assembler Language Prog.</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 291</td>
<td>Discrete Structures II</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 303</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 304WI</td>
<td>Ethics and Professionalism</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI Electives (CS 300&lt;497)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI Advanced Electives (CS 400&lt;497)</td>
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**Minimum Requirement**

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
</tr>
<tr>
<td>General Education Synthesis (6)</td>
</tr>
<tr>
<td>---------------------------------------</td>
</tr>
<tr>
<td>COMP-SCI 449 Fund. of Software Engr.</td>
</tr>
<tr>
<td>COMP-SCI 451R Software Engr. Capstone</td>
</tr>
<tr>
<td>Minimum Requirement</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 220 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 235 Elementary Statistics</td>
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<table>
<thead>
<tr>
<th>Communicating</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGLISH 110 Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 225 Freshman English II</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 110 Fundamentals of Speech</td>
<td>3</td>
</tr>
<tr>
<td>WEPT (Written English Proficiency Test)</td>
<td>0</td>
</tr>
<tr>
<td>Minimum Requirement</td>
<td>9</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective: Art/Art Hist, CommSt, Conservatory, English, Foreign Lang, Philosophy, or Theater</td>
<td>3</td>
</tr>
<tr>
<td>Minimum Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td><strong>Life and Physical Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>One Life Science and one Physical Science course with a minimum of one lab in either from one of the following areas: Biology, Chemistry, environmental Science, Geoscience, or Physics</td>
<td></td>
</tr>
<tr>
<td>Minimum Requirement</td>
<td>7-10</td>
</tr>
</tbody>
</table>

| **Social and Behavioral Sciences** | Credit Hours |
|---------------- -----------------|--------------|
| HISTORY 101, 102, 360R or POL-SCI 210 (Meets MO constitution requirement) | 3            |
| Two courses from two different fields: Criminal Justice, Geography, Economics, History, Political Science, Psychology, Social Science or Sociology | 6            |
| Minimum Requirement     | 9            |

<table>
<thead>
<tr>
<th><strong>Foreign Language</strong></th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>FRN-LNG 110 or 1 year H.S. study</td>
<td>0-4</td>
</tr>
<tr>
<td>FRN-LNG 120 or 2 years H.S. study</td>
<td>0-4</td>
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<tr>
<td>Culture Course(Independent Global Env.)</td>
<td>3</td>
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<td>Minimum Requirement</td>
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<table>
<thead>
<tr>
<th><strong>General Electives</strong></th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Additional coursework to complete the credit hours needed for graduation 12-15 hrs. 300&lt;</td>
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<td>Minimum Requirement</td>
<td>21-31</td>
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</tbody>
</table>

| **Total Minimum Requirement** | 120          |

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### Computer Science (BS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP-SCI 101</td>
<td>Prob. Solv. &amp; Prog. I</td>
<td>3</td>
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<tr>
<td>COMP-SCI 111</td>
<td>Intro to Computing</td>
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<td>Assembler Language Prog.</td>
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<td>COMP-SCI 303</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 304W1</td>
<td>Ethics and Professionalism</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 394R</td>
<td>Applied Probability</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 404</td>
<td>Intro to Algorithm &amp; Complexity</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 421*</td>
<td>Found. of Data Networks -or- Introductory Network Models &amp; Interconnections</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 420*</td>
<td></td>
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<tr>
<td>COMP-SCI 431</td>
<td>Intro. to Operating Systems</td>
<td>3</td>
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<tr>
<td>COMP-SCI 441</td>
<td>Prog. Lang. Design &amp; Impl.</td>
<td>3</td>
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<tr>
<td>COMP-SCI 470*</td>
<td>Intro. Database Mgmt. Syst. -or- Database Design, Implementation &amp; Validation</td>
<td>3</td>
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<tr>
<td>COMP-SCI 371*</td>
<td></td>
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<tr>
<td>COMP-SCI Electives (CS 300-&gt;)</td>
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<tr>
<td>COMP-SCI Advanced Electives (CS 400-499)</td>
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**Minimum Requirement** 40-55
<table>
<thead>
<tr>
<th>General Education Synthesis (6)</th>
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<tbody>
<tr>
<td>COMP-SCI 449 Fund. of Software Engr.</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 451R Software Engr. Capstone</td>
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</tr>
<tr>
<td>MATH 300 Linear Algebra</td>
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</tr>
<tr>
<td>STAT 235 Elementary Statistics</td>
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<td>Minimum Requirement</td>
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<tr>
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</tr>
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<td>Elective: Art/Art Hist, CommSt, Conservatory, English, Foreign Lang, Philosophy, or Theater</td>
<td>3</td>
</tr>
<tr>
<td>Minimum Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Life and Physical Sciences</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>PHYSICS 240 and PHYSICS 250</td>
<td>10</td>
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<tr>
<td>One Life Science course in one of the following:</td>
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<tr>
<td>Chemistry or Biology</td>
<td>4-5</td>
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<td><strong>Minimum Requirement</strong></td>
<td><strong>14-15</strong></td>
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</tbody>
</table>

<table>
<thead>
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<th>Social and Behavioral Sciences</th>
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<tbody>
<tr>
<td>HISTORY 101, 102, 360R or POL-SCI 210 (Meets MO constitution requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Two courses from at least two fields:</td>
<td></td>
</tr>
<tr>
<td>Criminal Justice, Geography, Economics, History,</td>
<td></td>
</tr>
<tr>
<td>Political Science, Psychology, Social Science or</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td>6</td>
</tr>
<tr>
<td><strong>Minimum Requirement</strong></td>
<td><strong>9</strong></td>
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<table>
<thead>
<tr>
<th>General Electives</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional coursework to complete the credit hours</td>
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</tr>
<tr>
<td>needed for graduation</td>
<td>9-10</td>
</tr>
<tr>
<td><strong>Minimum Requirement</strong></td>
<td><strong>9-10</strong></td>
</tr>
</tbody>
</table>

**Total Minimum Requirement**                      **120**

Students pursuing the B.S. degree in Computer Science are required to take two additional advanced elective courses (at the 400 level), with which they can tailor their degree to their specific needs. Students have the option to pursue the emphasis area in Bioinformatics or to pursue one of the concentration areas of Computer and Telecommunications Networking or Software Engineering.

**Bioinformatics**

The courses required for the emphasis area in Bioinformatics can be accommodated within the current plan of study, if properly chosen. They are: BIOLOGY 108-General Biology I w/Lab, BIOLOGY 109-General Biology II w/Lab, BIOLOGY 202-Cell Biology, BIOLOGY 206-Genetics, CHEM 211-General Chemistry I w/Lab, CHEM 212-General Chemistry w/Lab, COMP-SCI 490MB, MetaModels of Biology, COMP-SCI 490BI-Introduction to Bioinformatics, and either COMP-SCI 371 -Database Design,
Implementation and Validation, or COMP-SCI 470-Introduction to DBMS. Please note that COMP-SCI 490MB can be replaced by an advisor approved junior or senior level course in Biology, Chemistry, Physics, Life Sciences, or other similar discipline.

*Computer and Telecommunications Networking*

For the concentration in Computer and Telecommunications Networking, students may take the CS advanced electives from the following list of courses: COMP-SCI 411, COMP-SCI 416, COMP-SCI 420, COMP-SCI 421, COMP-SCI 423. Courses offered as special topics (COMP-SCI 490) that are relevant to this concentration may also count, such as Network Analysis, Network Security.

*Software Engineering*

For the concentration in Software Engineering, students may take the CS advanced electives from the following list of courses: COMP-SCI 456, COMP-SCI 457, COMP-SCI 458, COMP-SCI 461, COMP-SCI 464, COMP-SCI 493. Courses offered as special topics (COMP-SCI 490) that are relevant to this concentration may also count.

For suggested four year plans, please see the registrar’s website: http://www.sfa.umkc.edu/majormaps/

**Fast Track Program in Computer Science**

This program offers students an opportunity to meet the full requirements of the existing BS and MS degree programs in a shorter time period than the separate degree programs by completing a B.S. degree in Computer Science within four years and then completing an M.S. degree in Computer Science in their fifth year. Please contact our department for additional info or clarification on the information below, by calling (816) 235-1193, or sending an e-mail to mailto:csee@umkc.edu

**Admission Requirements for Fast Track**

Students must meet the following entrance requirements:

1. High School GPA of 3.50 GPA (out of 4.00).
2. ACT Math of 28 or higher.
3. No single grade below C (2.00) in any coursework in STEM (Science, Technical, Engineering or Mathematics) fields from another college.
4. Cumulative GPA of 3.00 in any previous college credit.
5. Must start at UMKC/CSEE within one year of High School graduation.

Students are expected to follow the recommended curriculum (although deviations are possible) and must maintain:

1. UMKC cumulative GPA of 3.0 or higher.
2. A minimal course grade of 2.00 or higher for every course attempted in the CSEE department.
Students are admitted into the graduate program in the spring semester of their fourth year. Upon successful completion of the first four years, the students will be eligible for an assistantship. The assistantship is renewable for the second semester of the fifth year only if they complete at least nine credit hours during their first semester with at least a 3.50 GPA.

Students will begin with the existing undergraduate degree programs in the school. They will take the same classes as other undergraduates, carrying 15-18 credit hours per semester. If they continue to meet the requirements, they will be invited to take graduate level classes before they graduate with a BS degree. After graduating with a BS degree, they will continue with the graduate program.

**Credit Hour Requirements:**

The BS and MS program in Computer Science requires:

- 120 Undergraduate Credit Hours,
- 30 Graduate Credit Hours, and
- 150 Total Credit Hours.

**Academic Requirements:**

The academic requirements for both degrees are identical to the requirements for the two degrees when considered separately, with a few additions and exceptions.

1. Students enrolled in the plan must maintain a 3.50 cumulative GPA for all UMKC coursework.
2. Students must receive a minimum grade of C (2.0) in every course attempted in the CSEE Department.
3. Students should follow the recommended sample program in order to graduate within five years, but variations are possible.
4. The degree requirements for a BS in CS includes four CS advanced electives: (CS 420 or CS 421), (CS 470 or CS 371), plus two additional CS advanced electives. For students in the Fast Track, at least two of these four courses must be from the approved list of courses that graduate students can count towards their graduate studies, thus they must take (at least) two courses from from CS 411, CS 421, CS 423, CS 457, CS 458, CS 461, CS 470, CS 493 and CS 494R.
5. Students must be admitted to the Graduate School in the spring semester of their fourth year.
6. Upon successful completion of the first four years, the students will be eligible for a graduate assistantship.
7. The degree requirements for the Fast Track M.S. in CS is identical to that of the M.S. in CS under the 'non-thesis' option, composed of the 30 hours of graduate credit in
combination with the two courses taken as an undergraduate that were selected from the list above.

For additional details, please contact our Department by phone (816) 235-1193 or by e-mail mailto:sce@umkc.edu

**Bachelor of Science in Electrical and Computer Engineering**

Prior to graduation, students will have demonstrated that they have an ability to apply knowledge of mathematics, science, and engineering, that they can design and conduct experiments, including the analysis and interpretation of data. They can design a system, circuit, or process to meet desired needs within realistic constraints. They can effectively work on a team to identify, formulate, and solve engineering problems. They understand their professional and ethical responsibilities. They are able to communicate effectively, and have received the broad education necessary to understand the impact of engineering solutions in a broader context. They recognize the need for, and are able to engage in lifelong learning. They are able to use the techniques, skills, and modern engineering tools necessary for engineering practice.

High school students planning to apply to the electrical and computer engineering program should pursue a college preparatory program that emphasizes mathematics, science and communication skills.

First-time college student applicants to the undergraduate program in electrical and computer engineering will be admitted if they obtain:

1. An ACT mathematics score of at least 25 and
2. An ACT composite score of at least 24 or a high school class rank in the upper 25 percent.

First-time college student applicants who do not meet the above criteria but do meet UMKC general admission requirements may be admitted on probation or into the University College.

Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the degree program committee.

Transfer students will be admitted provided they have at least a 2.0 cumulative GPA; however, a higher GPA is strongly recommended for students pursuing this rigorous degree program. Degree program courses for which the student received a C or higher are accepted only if they are from ABET-accredited engineering or computing degree programs or have been approved as part of a transfer articulation agreement.

The curriculum requirements shown below are in effect for students entering the degree program in Fall 2010 or later. These include either new courses or slight modifications to existing courses, indicated with the footnotes in the listing below, where the anticipated title and credit hours are shown. The actual changes are introduced so that students in the Fall 2009 cohort can also satisfy these degree requirements and graduate in four years. All students already in the program can satisfy either the program requirements in effect when they entered the program, (available in the catalog archives or from your
advisor), or could satisfy the program requirements listed below. Please ask your advisor for full details on all options available.

<table>
<thead>
<tr>
<th>Electrical and Computer Engineering</th>
<th>(Minimum 66 Hours)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>E&amp;C-ENGR 226 Logic Design</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>E&amp;C-ENGR 227 Logic Design Lab</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>E&amp;C-ENGR 228 Intro to Computer Design</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>E&amp;C-ENGR 229 Intro to Computer Design Lab</td>
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<td>1</td>
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<tr>
<td>E&amp;C-ENGR 250 Engineering Mechanics and Thermodynamics</td>
<td></td>
<td>3</td>
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<tr>
<td>E&amp;C-ENGR 276 Circuit Theory I</td>
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<tr>
<td>E&amp;C-ENGR 277 Circuit Theory I Lab</td>
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<tr>
<td>E&amp;C-ENGR 302 Electromagnetic Waves and Fields</td>
<td></td>
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<tr>
<td>E&amp;C-ENGR 330 Electronic Circuits</td>
<td></td>
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<tr>
<td>E&amp;C-ENGR 331 Electronic Circuits Lab</td>
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<tr>
<td>E&amp;C-ENGR 358 Introduction to Control Systems</td>
<td></td>
<td>3</td>
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<tr>
<td>or Introduction to Communication Systems</td>
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<tr>
<td>E&amp;C-ENGR 474 Circuit Theory II</td>
<td></td>
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<tr>
<td>E&amp;C-ENGR 376 Circuit Theory II Lab</td>
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<tr>
<td>E&amp;C-ENGR 380 Signals and Systems</td>
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<tr>
<td>E&amp;C-ENGR 381 Signals and Systems Lab</td>
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<tr>
<td>E&amp;C-ENGR 402W1 Senior Design I (See footnote #3 below)</td>
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<tr>
<td>E&amp;C-ENGR 403 Senior Design II</td>
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<tr>
<td>E&amp;C-ENGR 420 Advanced Engineering Computation</td>
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<tr>
<td>E&amp;C-ENGR 426 Microcomputer Architecture</td>
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<td>E&amp;C-ENGR 427 Microcomputer Architecture Lab</td>
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<tr>
<td>E&amp;C-ENGR 428R Embedded Systems</td>
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<td>E&amp;C-ENGR 429 Embedded Systems Lab</td>
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<td>E&amp;C-ENGR 430 Microelectronic Circuits</td>
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<td>E&amp;C-ENGR 431 Microelectronic Circuits Lab</td>
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<tr>
<td>E&amp;C-ENGR 466 Power Systems I</td>
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<td>3</td>
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<tr>
<td>E&amp;C-ENGR 4XX Senior Area Electives (See footnote #1 below)</td>
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General Engineering (1 Hour)

<table>
<thead>
<tr>
<th>General Engineering</th>
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<tbody>
<tr>
<td>E&amp;C-ENGR 110</td>
<td>Introduction to Electrical and Computer Engineering</td>
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Mathematics, Symbolic & Logical Reasoning (13 Hours)

<table>
<thead>
<tr>
<th>Mathematics, Symbolic &amp; Logical Reasoning</th>
<th>(13 Hours)</th>
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<tbody>
<tr>
<td>MATH 220 Calculus II</td>
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<tr>
<td>E&amp;C-ENGR 241 Applied Engineering Analysis I</td>
<td>3</td>
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<tr>
<td>E&amp;C-ENGR 341R Applied Engineering Analysis II</td>
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</tr>
<tr>
<td>COMP-SCI 394R Applied Probability</td>
<td>3</td>
</tr>
<tr>
<td>Category</td>
<td>Courses</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Life and Physical Sciences</strong></td>
<td></td>
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<tr>
<td>BIOLOGY 102/102L</td>
<td>Biology and Living plus lab</td>
</tr>
<tr>
<td>PHYSICS 240</td>
<td>Physics for Science and Engineering I</td>
</tr>
<tr>
<td>PHYSICS 250</td>
<td>Physics for Science and Engineering II</td>
</tr>
<tr>
<td><strong>Communications Skills</strong></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 110</td>
<td>English I (See footnote #2 below)</td>
</tr>
<tr>
<td>ENGLISH 225</td>
<td>English II</td>
</tr>
<tr>
<td>COMM-ST 110</td>
<td>Fundamentals of Effective Speaking &amp; Listening</td>
</tr>
<tr>
<td><strong>Humanities, Fine Arts &amp; Social and Behavioral Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Constitution Requirement</td>
<td>HISTORY 101, 102, 360R or POL-SCI 210</td>
</tr>
<tr>
<td>HFA Elective</td>
<td>Any two courses in Art, Art History, Communication Studies, Conservatory, English, Foreign Language (not native language to student), Philosophy, or Theater or take one course in HFA and MEC-ENGR 130 Engineering Graphics</td>
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<tr>
<td>CIV-ENGR 211</td>
<td>Engineering Enterprise (See footnote #4 below)</td>
</tr>
<tr>
<td>CIV-ENGR 311</td>
<td>The Technical Entrepreneur, or any course in Criminal Justice, Geography, Economics, History, Political Science, Psychology, Social Science or Sociology</td>
</tr>
<tr>
<td>SBS Elective</td>
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</tr>
<tr>
<td><strong>Higher Order of Thinking</strong></td>
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</tr>
<tr>
<td>ECE 216</td>
<td>Engineering Computation</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Calculus I</td>
</tr>
</tbody>
</table>

**Total Minimum Requirement: 125 Hours**

Footnotes:

1: Three of the four courses must be from E & C Engr; the other course can be ECE or outside ECE (such as CS or Physics). See advisor for details. Furthermore, qualified students might be able to take graduate level courses.

2: Requirement may be waived if students have an ACT English score of 30; or SAT Verbal score of 630; or AP English Lang/Comp score of 4.2

3: Students must take and pass the WEPT (Written English Proficiency Test at least one semester prior to enrolling in ECE 402WI.

4: Students may also take ECON 201 or ECON 202 in place of CIV-ENGR 211

For suggested four year plans, please see the registrar’s website: http://www.sfa.umkc.edu/majormaps
Fast Track Electrical and Computer Engineering/Electrical Engineering Program
This program offers students an opportunity to meet the full requirements of the existing programs of BS in ECE and MS in EE in a shorter time period than the separate degree programs by completing a B.S. degree in Electrical and Computing Engineering within four years and then completing an M.S. degree in Electrical Engineering in their fifth year. Please contact our department for additional info or clarification by phone (816) 235-1193 or by e-mail mailto:csee@umkc.edu

Admission Requirements for Fast Track
Students must meet the following entrance requirements:

1. High School GPA of 3.50 GPA (out of 4.00).
2. ACT Math of 28 or higher.
3. No single grade below C (2.00) in any coursework in STEM (Science, Technical, Engineering or Mathematics) fields from another college.
4. Cumulative GPA of 3.00 in any previous college credit.
5. Must start at UMKC/CSEE within one year of High School graduation.

Students are expected to follow the recommended curriculum (although deviations are possible) and must maintain:

1. UMKC cumulative GPA of 3.00 or higher, and
2. A minimal course grade of 2.00 or higher for every course attempted in the CSEE department.

Students are admitted into the graduate program in the spring semester of their fourth year. Upon successful completion of the first four years, the students will be eligible for an assistantship. The assistantship is renewable for the second semester of the fifth year only if they complete at least nine credit hours during their first semester with at least a 3.50 GPA.

Credit Hour Requirements:
The Fast Track combination of a bachelor's program in Electrical and Computer Engineering and a master's program in Electrical Engineering requires:

- 120 Undergraduate Credit Hours
- 30 Graduate Credit Hours, and
- 150 Total Credit Hours.
Academic Requirements:

The curricular requirements for both degrees are identical to the requirements for the two degrees when considered separately, with a few additions and exceptions.

1. Students enrolled in the plan must maintain a 3.50 cumulative GPA for all UMKC coursework.
2. Students must receive a minimum grade of C (2.0) for every course attempted in the CSEE Department.
3. Students should follow the recommended sample program in order to graduate within five years, but variations are possible.
4. The bachelor's degree in Electrical and Computer Engineering will be awarded after 126 credit hours have been earned. (120 as an undergraduate and 6 as a graduate student.) There are a number of courses available for this purpose, e.g. ECE 412, ECE 416, ECE 424, ECE 458, ECE 461, and ECE 476.
5. Students must be admitted to the Graduate School in the spring semester of their fourth year.

For additional details, please contact our Department by phone (816) 235-1193 or by e-mailmailto:csee@umkc.edu

Students should follow the sample program as listed for the BS in ECE degree and should apply for the graduate degree prior to enrolling for the Spring semester of their fourth year, so that they will take six hours of elective courses as a graduate student. During their fifth year, they could enroll in 12 credit hours each semester or make use of the Summer semester between their fourth and fifth year to take a course or special project, if offered.

Minor in Computer Science

For students to obtain a minor in Computer Science, they must satisfy all University degree requirements (see the General Undergraduate Academic Regulations and Information section in this catalog), satisfy the requirements as set forth by the major degree (major department, major academic unit) and must obtain a GPA of 2.0 or higher in the eight courses specified below, with no individual computer science grade below a C (2.0).

There are no other requirements specifically required by the minor, although some of the courses do have prerequisites from outside of SCE. In particular, MATH 110 and MATH 210 are prerequisites for COMP-SCI 101, COMP-SCI 191 and COMP-SCI 303.

Computer Science Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP-SCI 101</td>
<td>Problem Solving &amp; Programming I</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 191</td>
<td>Discrete Structures I</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 201</td>
<td>Problem Solving and Programming II</td>
<td>3</td>
</tr>
<tr>
<td>COMP-SCI 201L</td>
<td>Problem Solving and Programming II Lab</td>
<td>1</td>
</tr>
</tbody>
</table>
CSEE Undergraduate Programs
The CSEE department administers undergraduate degree programs in:

- Computer Science (B.A. in CS)
- Computer Science (B.S. in CS, ABET accredited)
- Electrical and Computer Engineering (B.S. in ECE, ABET accredited)
- Information Technology (Bachelor of IT, ABET accredited)

A Fast Track Option for completing both an undergraduate degree and a masters degree within five years is available for CS and http://www.umkc.edu/umkc/catalog/html/sce/cs-ee/ece-fast-track.html#ECE/EE, as described below. Furthermore, a minor in computer science is available as well.

The two degrees in computer science are the bachelor of arts in computer science (B.A. with a liberal arts perspective), and bachelor of science in computer science (B.S. with a more thorough technical perspective). The B.S. degree is accredited by ABET and has optional concentrations or emphasis areas in software engineering, computer networking and bioinformatics. The degree prepares the student for work in these industries, as well as for pursuing further graduate education in these areas. The bachelor of science in electrical and computer engineering (B.S.) is for students wanting to pursue a career in electrical engineering or electrical and computer engineering. The bachelor of information technology (B.I.T.) degree is accredited by ABET and caters to the needs of the IT industry and uniquely blends both computer science and business coursework.

Certified General Education Core at Another Missouri Institution
Students wanting to transfer into the CSEE department with a certified 42-hour block of general education credit from another Missouri institution are strongly encouraged to consult an academic adviser in our department in addition to the adviser at their home institution. Contact the department office at (816) 235-1193. This ensures coursework taken in this block also satisfies specific degree requirements in our department.

CSEE Graduate Academic Regulations
For smooth completion of the degree program, a student must follow various academic regulations as described below. Should a student want to switch from the MS in CS program to the MS in EE program (or vice versa), then the student needs to petition the graduate committee to have the record evaluated for admissibility. The DICE award status will not be effected. For information on financial aid, DICE awards and graduate assistantships please refer to the SCE Financial Assistance page.

A graduate degree indicates mastery of a coherent program in a chosen field and the ability to engage in creative projects in that specialty. The program of study is vital in assuring the completion of a formal program of study designed to ensure the mastery of specified knowledge and skills.
Forms for the program of study specification may be obtained from the CSEE Department Office. It is required that the program be approved by the student's graduate adviser and the graduate committee chair in the semester in which the student will complete 12 credit hours toward the degree, which is usually during the second semester of enrollment. It is then forwarded to the graduate officer for further approval and handling.

Once a program of study has been approved, it is the student's responsibility to ensure that all curricular requirements and prerequisites are satisfied. If a change in the approved program is needed, a petition must be submitted to the student's adviser who forwards it to the graduate committee for approval. It is not expected that more than four courses will change from the original program of study. If more than four courses are changed, then a new program of study should be filed.

Initially, the student will be advised by the academic adviser assigned to them during the first semester of enrollment. In order to enroll in any course, the student must have the signature of the adviser. No student can enroll without such a signature. If a student enrolls in a class without their adviser's signature or approval, that class may not count toward graduation requirements. Also see the section "Starting the Program".

In the semester that results in 12 hours of credit toward the master's degree, students should decide between a thesis option and a non-thesis option. If students decide on a non-thesis option, they should consult with their adviser and submit a plan of study for approval. If students decide on a thesis option, they should seek a thesis adviser, who then also becomes the academic adviser. The thesis adviser must be a full member of the graduate faculty and, in collaboration with the student, will then appoint two other graduate or associate graduate faculty members to be on the student's thesis committee. The thesis committee may consist of more than three members, but the majority of committee members must have full graduate faculty status. Again, a plan of study must be submitted for approval.

A graduate student enrolled in the fall or spring semester in nine or more credit hours is considered full time. A graduate student enrolled in the summer semester in five or more credit hours is considered full time. Any student enrolled in less than the above number of hours is considered part time. A student who is enrolled for six credit hours during a regular semester may be considered full time if the student has at least a quarter-time graduate assistantship. A student's academic load may be restricted as deemed fit by the student's graduate adviser or the CSEE master's committee.

International students will be required to take an English Proficiency Test administered by the International Student Affairs Office. Performance on the test may result in the requirement that the student take one or more English language courses during the first semester.

Students holding graduate assistantships should take a minimum of six credit hours during each of the fall and spring semesters and a minimum of three credit hours during the summer session. However, GA/GTA/GRAs who have completed all coursework and who are working on research need to enroll in only one credit hour. International students must abide by the requirements of the U.S. Immigration Service and should consult the International Student Affairs Office regarding this matter.
To remain in good standing, the student must enroll for at least one semester during each calendar year until all the courses in the program of study are completed. After this time, the student must be continuously enrolled each fall and spring semester until the degree is awarded. The student must be enrolled in the semester in which the degree will be received. Students working as graduate assistants during the summer must be enrolled during the summer semester. Failure to follow the above policies will result in a need to apply for new admission to the program under the degree requirements in effect at the time of re-admission.

The student must maintain at least a 3.0 GPA every semester. Deficiency courses, if any, must be passed with a B (3.0) or higher. A 400-level course in which the student receives a grade lower than B (3.0) can not be used to satisfy the degree requirements. Similarly, a 5000-level course in which the student receives a grade lower than C (2.0) can not be used to satisfy the degree requirements. However, all grades for courses taken for graduate credit shall be used in the calculation of the current GPA. No more than one grade below B (3.0) in a course taken for graduate credit can be applied toward the degree. If a student receives three grades below B (3.0) in courses taken for graduate credit or taken to fulfill a deficiency requirement, or if a student receives a grade below C (2.0) in a course taken for graduate credit or taken to fulfill a deficiency requirement, then the student will be ineligible to enroll.

A student enrolling in any UMKC course is expected to exhibit high standards of academic honesty in all works, and are expected to refrain from cheating and plagiarism. Rules governing any suspected violation are clearly spelled out elsewhere in the UMKC catalog (www.umkc.edu/umkc/catalog/html/append/policy/0040.html.) Instructors are obligated to report any cases of alleged academic dishonesty, and any violation will result in sanctions being imposed on the student, ranging from a warning, probation, loss of financial aid, loss of privileges, suspension, and dismissal. Please note that both receiving and giving unauthorized assistance is considered academically dishonest.

Any exception to academic policy and regulations or to the degree requirements (e.g. deficiency waiver) must be requested through a written petition. The petition form is available from the CSEE Department Office and on the Web; the completed petition which includes an explanation for the petition should be submitted to the CSEE Department Office. The degree program coordinator or his/her designee will review petitions and communicate the result to the student. It is important that the petition include any necessary documents as attachments for a timely decision.

Ineligible students may petition the CSEE graduate committee to be re-enrolled. Such petitions will be reviewed by the graduate committee whose ruling is final. An ineligible student will only be approved for further graduate study under the terms of a restrictive probation in the form of a written contract between the student and the CSEE department. The CSEE department may render a student ineligible regardless of the student's GPA. Such procedures are rare and will involve a recommendation to the dean of the School of Graduate Studies.

A graduate student should not take a course for audit if that student plans to take the course for credit. Once a course has been audited by a student, the student cannot take the course for credit later in the program.

A graduate student cannot change a course to audit after the eighth week of the fall and spring semesters or after the fourth week of the summer semester. Changes to audit status must have the permission of the course instructor, as well as be within the allowable period.
Master of Science in Computer Science

Upon graduating, students will have demonstrated that they can apply the core technologies from computer science and from their chosen emphasis areas. They will have developed an analytical mindset and understand the limitations of current theories and technologies. They will be able to design a system under realistic constraints, which they are able to implement using modern tools and techniques. They will have had an opportunity to take in-depth course work in the area of computer networking, telecommunications, software engineering and bioinformatics.

The University of Missouri-Kansas City's graduate program in computer science will accept college and university graduates whose past performance indicates an ability to succeed in graduate study in computer science. This ability can be demonstrated by the following undergraduate preparation.

1. A sound background in computer science as indicated by an above-average understanding (e.g. a cumulative GPA in CS coursework of 3.0 or better with no single course grade lower than 2.0) of the content of the following courses:

   - Problem Solving and Programming I (COMP-SCI 101)
   - Problem Solving and Programming II (COMP-SCI 201R)
   - Problem Solving and Programming II Lab (COMP-SCI 201L)
   - Introduction to Computer Architecture & Organization (COMP-SCI 281R)
   - Discrete Structures I and II (COMP-SCI 191, 291)
   - Data Structures (COMP-SCI 303)
   - Introduction to Algorithms and Complexity (COMP-SCI 404) or Data Structures and Algorithms (COMP-SCI 352)
   - Applied Probability (COMP-SCI 394R)
   - Introduction to Operating Systems (COMP-SCI 431)

2. A sound background in mathematics as indicated by an above average understanding (e.g. a GPA of 3.0 or better with no single course grade lower than 2.0) of calculus (minimum of 10 hours) and of the content of at least two additional upper-level courses in areas such as linear algebra, differential equations, abstract algebra, numerical analysis or mathematical logic.

3. An overall GPA of 3.0 or better in all undergraduate work.

4. Official results of the Graduate Record Exam (GRE) general test. The applicant must score in at least the 75th percentile on the quantitative portion of the GRE. Admission to our degree programs is competitive and a higher score is recommended.

5. For international students, a minimum test score of TOEFL 550 or CBT 213 or IBT 79 is needed. A higher score makes the application competitive for DISA consideration.

6. Prospective students who want to be considered for acceptance to the M.S. degree program should submit the following documents:

   - Transcripts for all graduate and undergraduate work completed so far; syllabi of these courses (or a URL to these) is strongly suggested.
   - Copies of academic and scholarly diplomas received.
   - GRE scores and, for international students, TOEFL scores, as well as a statement of purpose, i.e. a one- or two-page essay in which the prospective students indicate their career objectives.

It is possible that a prospective student has obtained a solid understanding of either computer science or mathematics through work or other experience rather than formal study. These students must submit a
detailed description of such experience and ask a supervisor to write a letter of reference supporting the application.

Applications will be reviewed by the master's committee when all documentation is received. For full consideration for the semester indicated, completed applications should be received by the following dates:

- For fall semester admission (semester starts in August):
  - U.S. students/permanent residents: June 1.
  - International students: Jan. 15.

- For spring semester admission (semester starts in January):
  - U.S. students/permanent residents: Nov. 1 of the preceding year.
  - International students: Oct. 1 of the preceding year.

U.S. citizens or permanent residents should submit application forms and required supporting materials to:

**Mailing Address**
University of Missouri-Kansas City
Office of Admissions
120 Administrative Center
5100 Rockhill Road
Kansas City, MO 64110-2499

Their telephone number is (816) 235-1111 and their e-mail address is admit@umkc.edu.

International students should use the international application form and return the application, along with required supporting materials to:

**Mailing Address**
University of Missouri-Kansas City
Office of International Student Affairs
5100 Rockhill Road
Kansas City, MO 64110-2499

Their telephone number is (816) 235-1113 and their e-mail address is isao@umkc.edu.

Prospective students can request additional information or request information regarding their application by contacting UMKC at the above addresses or by sending e-mail to: csee@umkc.edu.

When accepted into the program, the student's first contact is with the computer science principal graduate adviser or with members of the graduate committee during the orientation session. The most immediate concern is for the courses to be taken in the first semester. The principal graduate adviser will help the student select those initial courses. At this initial meeting, a review will be made of the student's status in the program and the student will be required to provide a tentative program of study within the first semester. Such a program should reflect the deficiency and prerequisite courses that have been prescribed and may have to be taken prior to taking courses for graduate credit.
Within the first semester, the student will be assigned a graduate adviser (faculty) who will then become the primary contact person for that student until a thesis adviser (for thesis option) is selected. The chair of the CSEE graduate committee or his/her designee will notify the student of the identity of the specific graduate adviser. It will be the responsibility of students, in conjunction with their advisers/chairs, to devise a program of study using the degree requirements worksheet and the course planning worksheet. This should be submitted to the graduate committee, usually by the end of the second semester. The CSEE graduate committee is in charge of handling procedural issues related to the M.S. program in computer science. Any request for exception to rules, regulations or policies should be directed to this committee.

**Deficiencies**

The graduate committee reviews and evaluates all applications for admissions to the M.S. degree programs. Frequently, they review applications from students whose past academic record show strong positive indications for success as a graduate student, yet have not satisfied all courses needed for full admission. Students with an undergraduate degree in computer science from an ABET accredited program are well prepared. Others may have deficiencies in their preparation. The committee may offer these students admission to the program on a conditional basis and compile a list of "deficiency courses". The successful completion of these courses with a grade of B or better will be a condition of full admission to the program. The student is then required to complete all such deficiencies as a contractual obligation at the earliest opportunity.

The committee creates this list based on the transcripts and syllabus submitted by the applicant. However, it is possible that applicants have indeed satisfied one or more of their listed deficiencies. In these cases, the student should contact their academic adviser as soon as possible in the first semester to initiate a petition to waive the deficiencies in question. The written petition with all the needed supporting documentation (such as course syllabus) attached, must be submitted no later than six weeks (two weeks for summer) after the start of the first semester of enrollment. The decision of the committee is final and can be one of three:

- The waiver is granted.
- The student is allowed to take an examination.
- The waiver is denied and the student must pass the class with a B (3.0) or higher.

The committee's decision is final, so it is important that students consult with their adviser to ensure that all the proper documentation supporting the waiver is submitted.

If the student is allowed to take an examination, it must take place no later than the second semester of enrollment. Deficiency examinations are offered once each semester and the student may take the exam only once. If the student does not perform satisfactorily on the exam, then the student must enroll in the course to satisfy the deficiency requirement.

All deficiencies shall be satisfied within three semesters of admission. If deficiencies are not satisfied within this time period, enrollment will be limited to deficiency courses until all deficiencies have been satisfied.

**Graduate Course Prerequisites**

Note that there are graduate level courses that have an undergraduate course as prerequisite and that not all undergraduate courses can be taken for graduate credit.
All students are required to complete a core curriculum of COMP-SCI 5592 and two courses selected from COMP-SCI 5520, COMP-SCI 5551, COMP-SCI 5566 or COMP-SCI 5570. All students are required to complete courses in a CS-emphasis and/or concentration areas. The approved areas and their associated courses are:

1. **Bioinformatics Emphasis** - COMP-SCI 5566 (Introduction to Bioinformatics), COMP-SCI 5567 (Machine Learning in Bioinformatics), COMP-SCI 5590CI (Computational Intelligence), COMP-SCI 5590NN (Neural and Adaptive Systems), COMP-SCI 5590BB (Machine Learning with Biomedical Applications), and others.

2. **Database and Information Management Concentration** COMP-SCI 5570 (Architecture of Database Management Systems), COMP-SCI 5572 (Mobile Computing), Information Security and Assurance (COMP-SCI 5573), COMP-SCI 5574 (Large Scale XML Data Mgmt), COMP-SCI 55670 (Architecture of Distributed Database Systems) and others.

3. **Networking and Telecommunications Emphasis** - COMP-SCI 5511 (Advanced Telecomm. Networks, cross listed as E&C-ENGR 5590TC), COMP-SCI 5513 (Digital Cellular Communications, cross listed with E&C-ENGR 5590DC), COMP-SCI 5514A (Optical Networking, cross listed with E&C-ENGR 5590ON), COMP-SCI 5520 (Network Architecture I, cross listed with E&C-ENGR 5590NA), COMP-SCI 5521 (Network Architecture II, cross listed with 5590NT), COMP-SCI 5522 (Computer Network Design and Analysis, cross listed with 5590ND), COMP-SCI 5526 (Network Routing, cross listed with 5590NR), COMP-SCI 5594 (Introduction to Queueing Theory) and others.

4. **Software Engineering and System Emphasis** - COMP-SCI 5531 (Advanced Operating Systems), COMP-SCI 5551 (Advanced Software Engineering), COMP-SCI 5552A (Formal Software Specification), COMP-SCI 5554 (Software Tools and Programming Environments), COMP-SCI 5560 (Knowledge Discovery and Management) and others.

If a student desires a concentration other than these, a petition must be submitted to the graduate committee requesting that a concentration be recognized for the student's specific degree plan. It should specifically state which courses the student wants to include in this concentration, it should explain why these courses together form a coherent group and how these courses fit the student's academic goals. Students must petition before including other courses in their program of study.

Please note that many of our bioinformatics courses also count towards a MS in Bioinformatics, administered in the Department of Informatic Medicine and Personalized Health in the School of Medicine. Please contact Dr. Stan Edlavitch for more information, 1000 East 24th Street, 5th Floor, Phone: 816-235-6617, Email: edlavitchs@umkc.edu.

The curriculum requirements shown below (approved by the faculty in May 2009) are taking effect for students entering the degree program in Fall 2010. The changes are mainly in the emphasis and concentration courses, credit hours, and the counting of courses at the undergraduate level. All students already in the program can satisfy either the program requirements in effect when they entered the program, (available in the catalog archives or from your advisor), or the program requirements below. Please ask your advisor for full details.

To earn an M.S. degree in computer science, the student must satisfy both the general master of science degree requirements of the University of Missouri-Kansas City and the requirements of the CSEE Department for either the thesis or non-thesis option as outlined below.
Specific Requirements for the Thesis Option (30 cr. hrs.):

1. Complete a minimum of 24 hours of approved COMP-SCI coursework for graduate credit with a cumulative GPA of at least 3.0.
2. Additionally, complete a minimum of six additional graduate COMP-SCI hours, including at least three hours COMP-SCI 5599 (Research and Thesis). The total number of hours of COMP-SCI 5597 (Directed Readings) or COMP-SCI 5599 (Research and Thesis) should not exceed six.
3. Contact a thesis adviser in the semester in which the student completes 12 hours of graduate work.
4. Present evidence of research abilities in the form of a master's thesis resulting from enrollment in at least three hours of COMP-SCI 5599 Research and Thesis.
5. Pass a general oral examination which may cover all the work covered in the student's graduate program.
6. Satisfy the requirements listed under the common requirements, see below.

Specific Requirements for the Non-Thesis Option (33 cr. hrs.):

1. Complete a minimum of 30 hours of approved coursework for graduate credit with a cumulative GPA of at least 3.0.
2. Additionally, complete another 3 hours of approved coursework, or 3 hours of approved COMP-SCI 5597 (Directed Readings). Only 3 hours of COMP-SCI 5597 can be applied to the degree.
3. Contact an adviser after completing 12 hours of graduate work to complete the program of study.
4. Satisfy all common requirements, see below.

Common Requirements and Limitations for both MS-CS Thesis Option and Non-Thesis Option:

1. Satisfy the core requirement: COMP-SCI 5592 (Design and Analysis of Algorithms) and two of the following four courses: COMP-SCI 5520 (Network Architecture I), COMP-SCI 5551 (Advanced Software Engineering), COMP-SCI 5566 (Introduction to Bioinformatics), and COMP-SCI 5570 (Architecture of Database Management Systems).
2. Complete a minimum of nine hours in one CS-emphasis or CS-concentration area and a minimum of six hours in another CS—emphasis or CS-concentration.
3. Each student must have a plan of study approved by both the student's supervisory committee and the graduate officer before the end of the semester in which the student completes 12 credit hours of graduate work.
4. No more than six credit hours total from any graduate coursework taken outside the CSEE department and from COMP-SCI 411 (Intro to Telecommunications Systems), COMP-SCI 421A (Foundations of Data Networks), COMP-SCI 423 (Client/Server Programming and Applications), COMP-SCI 457 (Software Architecture: Requirements and Design), COMP-SCI 470 (Intro to Database Mgmt Systems, COMP-SCI 493 (Intro to Computability) and COMP-SCI 494R (Applied Stochastic Models) can be used to satisfy degree requirements. Each of these courses must be completed with a 3.0 or higher.
5. Courses cannot be identical to courses already taken for a prior degree.
6. No more than three hours of COMP-SCI 5597 (directed readings) can be used to satisfy degree requirements. All COMP-SCI 5597 hours to be applied to the master of science in Computer Science degree requirements must be approved by the CSEE Master's Committee at least six weeks before classes begin.
7. No more than one course grade below 3.0 may be applied toward the degree requirements.
Transfer Credit

Not more than six hours of graduate credit may be transferred from another recognized graduate school or from another academic unit within UMKC. Transfer credit may be applied toward the master's degree requirements on the approval of the student's graduate adviser and the Master's Committee. No credit hours may be transferred when those hours have been used toward the completion of any other degree program, graduate or undergraduate. The total amount of transfer credit and credit from approved COMP-SCI 400-level classes shall not exceed six hours.

Master's degree candidates in computer science who decide to do the thesis option are required to demonstrate knowledge and maturity in the discipline by completing at least three hours of COMP-SCI 5599 - Research and Thesis. Students may enroll in more than three hours of COMP-SCI 5599, however, only six hours combined from COMP-SCI 5597 and COMP-SCI 5599 may be applied toward the degree. The research program will be defined by the student in conjunction with the student's thesis committee. Under the direction of the thesis adviser, the student will investigate a topic of current interest in computer science and prepare a master's thesis on that topic.

The final requirement for conferral of the M.S. degree is defense of the thesis, where the supervisory committee is the examining body. The thesis must be submitted in complete typewritten form to the adviser and supervisory committee at least six weeks before the date the advanced degree is to be conferred. Also, the supervisory committee must have access to the thesis at least one week before the date of the defense. Students must comply with all rules and regulations governing theses outlined in the general catalog under General Graduate Academic Regulations and Information.

Up to three hours of COMP-SCI 5597 Directed Readings is allowed toward a master of science. Such a course must be approved in advance (i.e., before the student takes the course) by the professor supervising the course and the graduate committee. The following information must be furnished:

- Title of the course.
- Detailed syllabus for the course.
- Textbook and references.
- The manner in which the course will be conducted (i.e. meetings, assignments, etc.).
- The manner in which the students are assessed (i.e. how many exams, presentations, reports, etc.).
- The course which it replaces, if appropriate.
- Name(s) of the instructor(s).
- Name(s) of the student(s).
- Reasons for offering this course in a directed readings format.

See the Fast Track section under Computer Science in the undergraduate catalog for information about the Fast Track Computer Science Program.

Financial Assistance for Doctoral Students

Graduate assistantships are available to prospective doctoral students, but are highly competitive. Currently, most full-time Ph.D. students in the CSEE department are supported either as a graduate assistant or as graduate research assistant, or as graduate teaching assistant. Doctoral students already in the program are eligible to apply for several fellowships available from the School of Graduate Studies. Check the School of Graduate Studies Web site at www.umkc.edu/sgs/financial.asp for additional information.
Master of Science in Electrical Engineering

Upon graduating, students will have demonstrated that they can apply the core technologies from their chosen concentrations or focus areas within electrical engineering and/or computer engineering. They will have developed an analytical mindset and acquired a skill set with engineering tools to design and implement solutions to overcome engineering challenges in society. They will also have had an opportunity to take in-depth course work in the area of computer engineering, digital signal processing, computational electromagnetics and antenna theory, telecommunications, power engineering and computer networking.

Applicants for master’s level graduate studies in electrical and computer engineering should have a GPA of at least 3.0 on a 4.0 scale for the last 60 semester hours of relevant undergraduate coursework in electrical engineering and/or computer engineering. However, if that GPA is below 3.0 but more than 2.75, and if other indicators promise success in the program, rules may still allow probationary admission. The department will notify the applicant by letter after careful examination of the application packet. The following documents are required for admission consideration:

1. Application for admission.
2. Official transcripts of all college coursework.
3. Graduate engineering supplemental application.
4. Official results of the Graduate Record Exam (GRE) general test. The applicant must score in at least the 75th percentile on the quantitative portion of the GRE. Admission to our degree programs is competitive and a higher score is recommended.
5. (For international students only) A minimum test score of TOEFL 550 or CBT 213 or IBT 79 is needed. A higher score makes the application competitive for DICE consideration. An international student must also place in the top 25 percent of his or her graduating class.
6. Two letters of recommendation for students with a GPA less than 3.0 for the last 60 hours of undergraduate work.

Note: High GRE verbal and quantitative scores and strong letters of recommendation may compensate for lower TOEFL scores and GPAs.

For full consideration for the semester indicated, completed applications should be received by the following dates:

- For fall semester admission (semester starts in August):
  - U.S. students/permanent residents: June 1.
  - International students: Jan. 15.
- For spring semester admission (semester starts in January):
  - U.S. students/permanent residents: Nov. 1 of the preceding year.
  - International students: Oct. 1 of the preceding year.

U.S. citizens or permanent residents should submit application forms and required supporting materials to:

UMKC 2012-13 Computing and Engineering, School of
Their telephone number is (816) 235-1111 and their e-mail address is admit@umkc.edu.

International students should use the international application form and return the application, along with required supporting materials to:

**Mailing Address**
University of Missouri-Kansas City
Office of International Student Affairs
5100 Rockhill Road
Kansas City, MO 64110-2499

Their telephone number is (816) 235-1113 and their e-mail address is isao@umkc.edu.

Prospective students can request additional information or request information regarding their application by contacting UMKC at the above addresses or by sending e-mail to: csee@umkc.edu.

**Acceptance or Denial**

After thoroughly considering an applicant's record, one of the following actions will be taken:

*Normal Acceptance*

The student is accepted unconditionally.

*Normal Acceptance with Pre-program Requirements*

This category applies to an otherwise qualified applicant who has a bachelor of science degree from an approved program, but not in electrical engineering, computer engineering, or a similarly named engineering discipline. The student will be notified in writing of any make-up requirements specified by the master’s committee.

*Probationary Acceptance*

Applicants with marginal credentials may be admitted conditionally. They will have to receive a B or better in each course in the first semester of graduate coursework. In addition, make-up requirements may be set forth by the master’s committee.

*Non-Acceptance*

The student is not admitted. The student will be notified in writing of the admission denial. The letter may specify under what conditions a future application would be more favorably considered.
When accepted into the program, the student’s first contact is with the electrical engineering principal graduate adviser. At this initial meeting, a review will be made of the student’s status in the program and the student will be required to provide a tentative program of study within the first semester. Such a program should reflect the prerequisite courses that have been prescribed and that may have to be taken prior to taking courses for graduate credit.

The most immediate concern is for the courses to be taken in the first semester. The principal graduate adviser will help the student select those initial courses. Within the first semester, the student will be assigned an academic adviser who will be the primary contact for the student until the student graduates under the non-thesis option. If the student decides to follow the thesis option, a thesis adviser will replace the academic adviser. In either case, it is the responsibility of the student to devise, after consultation with their advisers, a program of study using the degree requirements and the course planning worksheet. This should be submitted to the graduate officer, usually by the end of the second semester.

The master’s committee is in charge of handling procedural issues related to the M.S. program in electrical engineering. Any request for exception to the rules should be handled as described below related to petitioning procedures.

**Concentration Areas**

All students are required to complete courses in a concentration or focus areas. The approved EE-concentration areas and associated courses are listed below. All curricular designations are E&C-ENGR, unless indicated. Please note that course number changes are anticipated.

- Computers, VLSI, and Embedded Systems Concentration Area
  - Courses: E&C-ENGR 5535 (Verilog HDL), E&C-ENGR 5635 (VLSI Systems), E&C-ENGR 5528 (Embedded Systems), E&C-ENGR 5537 (Mixed Signal Integrated Circuit Design), E&C-ENGR 5533 (Analog IC Design), E&C-ENGR 5590CD (Low Power on Chip Design), E&C-ENGR 5590SD (Computer System Design and Architecture), E&C-ENGR 5590AV (Advanced Topics in VLSI Design) and others.
- Electromagnetics and Mixed Signal Systems Concentration Area
  - Courses: E&C-ENGR 5572 (Antennas and Propagation), E&C-ENGR 5513 (R.F./Microwave Techniques for Wireless Systems, cross listed as E&C-ENGR 412), TBD (Microwave Engineering for Wireless Systems, cross listed as E&C-ENGR 414), E&C-ENGR 5606 (Advanced EM Theory), E&C-ENGR 5537 (Mixed Signal Integrated Circuit Design), E&C-ENGR 5533 (Analog IC Design), E&C-ENGR 5590BP (Biomedical Signal Processing), E&C-ENGR 5518 (Introduction to Radar Systems Engineering) and others.
• Communications and Networking Concentration Area
  
  o Courses: E&C-ENGR 5590TC (Advanced Telecomm. Networks, cross listed as COMP-SCI 5511, 5590T), E&C-ENGR 5577 (Wireless Communications), E&C-ENGR 5590NA (Network Architecture I, cross listed with COMP-SCI 5520), E&C-ENGR 5590NT (Network Architecture II, cross listed with COMP-SCI 5521), E&C-ENGR 5590ND (Computer Network Design and Analysis, cross listed with COMP-SCI 5522), E&C-ENGR 5590NR (Network Routing, cross listed with COMP-SCI 5526), E&C-ENGR 5590DC (Digital Cellular Communications, cross listed with COMP-SCI 5513), E&C-ENGR 5590ON (Optical Networking, cross listed with COMP-SCI 5514A), and others.

• Signal and Image Processing, and Biomedical Applications Concentration Area
  
  o Courses: E&C-ENGR 5590BP (Biomedical Signal Processing), E&C-ENGR 5590NN (Neural and Adaptive Systems, cross listed with E&C-ENGR 416), E&C-ENGR 5590BB (Machine Learning with Biomedical Applications), E&C-ENGR 5590IP (Digital Image Processing, cross listed with E&C-ENGR 484), E&C-ENGR 5590B (Biomedical Imaging), E&C-ENGR 5586 (Pattern Recognition, cross listed with E&C-ENGR 486), E&C-ENGR 5590CI (Computational Intelligence), and others.

Focus Areas in Electric Power

The department also recognizes a focus area in Electric Power. The associated courses are E&C-ENGR 436 (Power Electronics I), E&C-ENGR 5536 (Power Electronics II), E&C-ENGR 5556 (Instrumentation and Controls), E&C-ENGR 5558 (Automatic Control Systems Design, cross listed with E&C-ENGR 458 new), E&C-ENGR 5560 (Electric Power Distribution Systems, cross listed with E&C-ENGR 468), E&C-ENGR 5561 (Electromechanical Conversion, cross listed with E&C-ENGR 461), E&C-ENGR 5563 (Sustainable Energy Systems), E&C-ENGR 5564 (Transmission Planning and Impact Studies), E&C-ENGR 5565 (Auxiliary Electric System Design), E&C-ENGR 5567 (Power Systems II, cross listed with E&C-ENGR 467), E&C-ENGR 5568 (Economics of Power Systems), E&C-ENGR 5569 (Reliability of Electric Power Systems, cross listed as E&C-ENGR 470), E&C-ENGR 5664 (Lightning and Switching Surges), E&C-ENGR 5670 (Direct Current Power Systems), E&C-ENGR 5672 (Power Systems Relaying).

Degree Requirements

The curriculum requirements shown below (approved by the faculty in May 2009) are taking effect for students entering the degree program in Fall 2010. The changes are mainly in concentration courses, credit hours, and the counting of courses at the undergraduate level. All students already in the program can satisfy either the program requirements in effect when they entered the program, (available in the catalog archives or from your advisor), or can satisfy the program requirements below. Please ask your advisor for full details.

To earn a master of science in electrical engineering, the student must satisfy the general degree requirements and complete coursework that fulfills the requirements according to the thesis or non-thesis option. The specific requirements for MS in EE with the power engineering focus area are listed separately.
Specific Requirements for the MS-EE Thesis Option (30 credit hours):

1. Complete a minimum of 24 hours of approved E&C-ENGR coursework for graduate credit with a cumulative GPA of at least 3.0.
2. Additionally, complete a minimum of six additional graduate E&C-ENGR hours, including at least three hours E&C-ENGR 5599 (Research and Thesis.) The total number of hours of E&C-ENGR 5597 (Directed Readings) or E&C-ENGR 5599 (Research and Thesis) should not exceed six.
3. Contact a thesis adviser in the semester in which the student completes 12 hours of graduate work.
4. Present evidence of research abilities in the form of a master's thesis resulting from enrollment in at least three hours of E&C-ENGR 5599 Research and Thesis.
5. Pass a general oral examination which may cover all the work covered in the student's graduate program.
6. Satisfy the requirements listed under the common requirement.

Specific Requirements for the MS-EE Non-Thesis Option (33 credit hours):

1. Complete a minimum of 30 hours of approved coursework for graduate credit with a cumulative GPA of at least 3.0.
2. Additionally, complete another 3 hours of approved coursework, or 3 hours of approved E&C-ENGR 5597 (Directed Readings).
3. Contact an adviser after completing 12 hours of graduate work to complete the program of study.
4. Satisfy all common requirements (see below)

Common Requirements and Limitations for both MS-EE Thesis Option and Non-Thesis Option:

(Note that the specific requirements for the power engineering focus area are listed separately.)

1. Complete a minimum of nine hours in one EE-concentration area and a minimum of six hours in another EE-concentration area.
2. Each student must have a plan of study approved by both the student's supervisory committee and the graduate officer before the end of the semester in which the student completes 12 credit hours of graduate work.
3. No more than six credit hours total from any graduate coursework taken outside the COMP-SCI EE department and from courses numbered below E&C-ENGR 5500 can be used to satisfy degree requirements. Each of these courses must be completed with a 3.0 or higher.
4. Coursework below the 400-level and the courses E&C-ENGR 402WI, 403WI, 460, 474, or E&C-ENGR 491 cannot be used to satisfy MS-EE degree requirements.
5. Courses cannot be identical to courses already taken for a prior degree.
6. No more than three hours of E&C-ENGR 5597 (directed readings) can be used to satisfy degree requirements. All E&C-ENGR 5597 hours to be applied to the master of science in electrical engineering degree requirements must be approved by the SCE Master's Committee at least six weeks before classes begin.
7. No more than one course grade below 3.0 may be applied toward the degree requirements.
Specific Requirements and Limitations for the Electric Power Focus Area (33 credit hours):

1. Complete a minimum of eighteen credit hours in the Electrical Power Focus area with a GPA of 3.00 or higher.
2. Each student must have a plan of study approved by both the student's supervisory committee and the graduate officer before the end of the semester in which the student completes 12 credit hours of graduate work.
3. No more than six credit hours total from any graduate coursework taken outside the COMP-SCI EE Department and from courses numbered below E&C-ENGR 5500 can be used to satisfy degree requirements. Each of these courses must be completed with a 3.0 or higher.
4. Coursework below the 400-level and the courses E&C-ENGR 402WI, 403WI, 460, 474, or E&C-ENGR 491 cannot be used to satisfy MS-EE degree requirements.
5. E&C-ENGR 5598 and 5599 cannot be used to satisfy degree requirements under this option, nor will E&C-ENGR 5597 (Directed Readings) be approved in the Electric Power Focus.

The Comprehensive Final Examination is required of all candidates for the master of science degree under the thesis option. It is arranged by the graduate faculty adviser. It is to be conducted prior to the deadline date established by the Graduate School for the semester of intended graduation. Prior to the date of the examination, each member of the committee is furnished a copy of the candidate’s final thesis for review and discussion at the time of the final examination.

If pursuing the thesis option, the thesis must be submitted in complete typewritten form to the adviser and supervisory committee at least six weeks before the date the advanced degree is to be conferred. Also, the supervisory committee must have access to the thesis at least one week before the date of the defense. Students must comply with all rules and regulations governing theses outlined in the general catalog under General Graduate Academic Regulations and Information.

Up to three hours of E&C-ENGR 5597 Directed Readings or E&C-ENGR 5697 Advanced Directed Readings, is allowed toward the master of science in electrical engineering. Such a course must be approved in advance (i.e., before the student takes the course) by the professor supervising the course and the graduate committee. The following information must be furnished:

- Title of the course.
- Detailed syllabus for the course.
- Textbook and references.
- The manner in which the course will be conducted (i.e. meetings, assignments, etc.).
- The manner in which the students are assessed (i.e. how many exams, presentations, reports, etc.).
- The course which it replaces, if appropriate.
- Name(s) of the instructor(s).
- Name(s) of the student(s.)
- Reasons for offering this course in a directed readings format.

See the Fast Track section under Electrical and Computer Engineering in the undergraduate catalog for information about the Fast Track Electrical Engineering Program.
Dentistry, School of

School of Dentistry
650 E. 25th Street
(816) 235-2100
Fax: (816) 235-2157
(816) 235-2080 (Admissions)
(800) 776-8652 (Toll-free admissions)
(816) 235-2050 (Division of Dental Hygiene)
dentistry@umkc.edu
http://www.dentistry.umkc.edu/

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Associate Dean for Clinical Programs:
Linda Wells

Associate Dean for Student Programs:
John W. Killip

Associate Dean for Research and Graduate Programs:
Mary P. Walker
- General Information
  - Mission, Vision and Goals
  - Facilities
  - Research Programs
  - Academic/Student Support Services
  - Grading System
  - Degrees Offered
  - Undergraduate Programs
    - Division of Dental Hygiene
      - Dental Hygiene Clinical Entry Level program
      - Dental Hygiene Degree Completion Program
  - Undergraduate Dentistry Courses
    - Dental Hygiene
  - Professional Programs
    - Doctor of Dental Surgery Program
  - Graduate Programs
    - Master of Science in Oral Biology
    - Master of Science in Dental Hygiene Education
    - Oral Biology Interdisciplinary Ph.D.
    - Advanced Education Programs
      - Advanced Education in General Dentistry
      - Endodontics
      - Oral and Maxillofacial Surgery
      - Orthodontics and Dentofacial Orthodontics
      - Periodontics
  - Graduate Dentistry Courses
    - Dentistry Professional (DENT)
    - Dental Hygiene (DENT-HYG)
    - Dentistry - Biological Sciences (BIO-SCI)
    - Endodontics (ENDO)
    - General Practice (G-PRAC)
    - Oral Biology (OR-BIO)
    - Oral Surgery (OR-SURG)
    - Orthodontics (ORTHOD)
    - Periodontics (PERIO)
    - Research Methodology - Dentistry (RES-ME)
General Information
All statements in this section are announcements of present policies, requirements (admission and academic progress), curricula, fees and services. They are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

History
The UMKC School of Dentistry traces its roots to 1881, when the Kansas City Dental College was founded as a department of the Kansas City Medical College. In 1919 the Kansas City Dental College merged with Western Dental College to form the Kansas City Western Dental College. It became the School of Dentistry of the University of Kansas City in 1941. In 1963 the school became the School of Dentistry at UMKC.

Continuous and distinguished service for more than 100 years has established the School of Dentistry as an important institution throughout the nation.

Over the years, the school's educational standards and opportunities have increased as the school has consistently demonstrated its ability to educate well-qualified dentists and dental hygienists to contribute to the improvement of oral health. As an affirmation of this, the D.D.S., the graduate certificate programs: advanced education in general dentistry, periodontics, oral and maxillofacial surgery, endodontics, and orthodontics and dentofacial orthopedics, and the B.S. in dental hygiene are fully accredited by the Commission on Dental Accreditation of the American Dental Association.

The school is situated on the Hospital Hill campus, where Truman Medical Center, Children's Mercy Hospital and the UMKC schools of medicine, nursing, and pharmacy are also located.

Goals

Vision Statement
UMKC School of Dentistry will be a model healthcare education institution that maintains the highest ethical and scientific standards of care, serving patients and the profession in an evolving healthcare environment.

Mission Statement
UMKC School of Dentistry serves as a leader in the advancement of oral healthcare through exceptional educational programs, scientific inquiry, patient care and service to society. The School of Dentistry is a center for dental education, research and service. The goals of the school are to:

- Provide educational programs that develop competent, compassionate, engaged life-long learners who will become oral health practitioners, researchers and educators.
- Achieve national/international recognition for excellence in research.
- Advance School of Dentistry activities within the community, valuing a commitment for caring for the profession, the community, & society.
- Enhance the School's culture and organizational structure to advance our mission.
Facilities

Clinic
Occupies 16,000 square feet; 281 fully equipped dental operatories; approximately 68,000 patient visits per year; internal, full-service prescription laboratories. Each patient treatment cubicle is equipped with electronic treatment record computer terminals. The computer-based student/patient clinical record management system is central to the efficient operation of the dental clinic.

Classrooms
Three large lecture halls and thirteen smaller classrooms/seminar rooms. Lecture halls are equipped with networked computers and modern projection systems.

Laboratories
Two dental preclinical simulation facilities with fully equipped working stations; an anatomical model laboratory.

Library
The School of Dentistry Library is part of the university-wide library system with a collection of approximately 33,300 volumes, 452 periodical subscriptions; extensive reference services; instructional resource library, extensively equipped for independent study with a variety of audiovisual equipment and 47 networked computers. Electronic access to the university-wide library collection includes 233,187 electronic books; 31,820 electronic journals; 231 databases and other electronic resources.

Hospital Affiliations
Teaching relationships exist with many area community health centers as well as area hospitals, including Children's Mercy Hospital, Saint Luke's Hospital, Truman Medical Center Hospital Hill, Richard Cabot Medical Clinic, Samuel Rodgers Community Health Center, and Swope Parkway Health Center.

Miscellaneous
The school also supports a full-service Biomedical Communication Department that contributes significantly to its educational and administrative missions. The Health Sciences Bookstore supplies all textbook, and some supply needs of the student body; it is housed on the Hospital Hill Campus.

Research Programs
Research plays a prominent role in the School of Dentistry. The Interdisciplinary Ph.D. program, M.S. degree programs (Oral Biology and Dental Hygiene Education) as well as the advanced dental programs all have strong research components. The intent of these programs is to expose the student to basic and translational research, and clinical application. Research and the scientific method are formal parts of the educational program of all dental school students, contributing to their education, as well as serving to advance science and dentistry. There is significant external grant funding supporting the research efforts. Many of the researchers who have obtained these grants serve as mentors for dental students participating in the Summer Scholars Program. In this selective program, a limited number of students participate in a nine-week research experience in the mentor's area of research interest and present their project results at a national meeting.
Outreach Programs
In keeping with its goal of developing in its students a sense of professional and societal responsibilities, and an awareness of community needs and problems, the school offers numerous outreach opportunities to students in all of its programs. Individuals associated with more than 30 community-based organizations, agencies or projects are provided oral health care by UMKC students and faculty.

Representative of these are the Kansas City Free Health Clinic, Give Kids a Smile (dental care for children in the Kansas City metro area), Mission of Mercy (MO and KS programs to provide dental care for children and adults), Students Take Action (student organization dedicated to compassion and comradeship through community service), Miles of Smiles (program that enables UMKC’s dental hygiene students to deliver comprehensive preventive oral health services to low income children in the Olathe School District).

Academic/Student Support Services

Academic Support Services
The School of Dentistry conducts a comprehensive academic support program which includes sessions to refine learning test taking skills and to provide assistance in coursework, as needed. An interceptive system of continuous academic monitoring is in effect. Students who may be experiencing academic difficulty during a term are identified and advised. This results in an individualized plan of action to overcome any deficiencies. In addition, personal counseling assistance is available to all students who state or demonstrate a need.

Office of Student Programs
The Dental School's Office of Student Programs is concerned with three primary areas of focus and responsibility:

- Admissions/recruitment
- Student records
- Student support services

The majority of student services are provided by this office. In other cases, the student is referred to the appropriate University student affairs offices if necessary. Student Support Services provide financial aid (initial assistance and referral), counseling services (initial assistance and referral), a housing file and referral, and other services.
**Financial Aid**
Financial assistance is available from a number of sources, primarily those programs supported by federal legislation (such as the Federal Direct Loan programs and Health Professions Student Loan). Information on most financial aid programs available to School of Dentistry students may be found in the School of Dentistry section of the Financial Aid Charts at http://www.umkc.edu/finaid/. Additional information may be gathered from Office of Student Programs School of Dentistry (816) 235-2080

or from

University of Missouri-Kansas City
Financial Aid and Scholarships Office
101 AC
5100 Rockhill Road
Kansas City, MO 64110-2499
(816) 235-1154

The student should apply for aid as soon as possible after acceptance into the particular program of study.

**Grading System**

The grading and grade-point system used by all academic programs in the School of Dentistry is defined by the University. It is outlined in the General Graduate Academic Regulations and Information section of this catalog. The School of Dentistry faculty do not use the + and - grading option; grades rendered are A, B, C, etc.

**Incomplete Grades**

An instructor may give an incomplete grade (I) to a student who, because of illness or other valid reasons beyond the student's control, has been unable to complete the work in a course. A student who receives an incomplete, and who subsequently does not elect to withdraw from the course, must complete the required work by a date specified by the instructor. Failure to complete required work by this date is cause for the incomplete to be changed to an F (failure without credit). This is exclusive of those courses that are considered directed individual studies, internships, special topics, practicums, and research and thesis courses.

An incomplete is appropriate when enough work in the course has been completed that the student can finish the remaining work without re-enrolling in the course in question or attending additional classes. Otherwise students should initiate withdrawal (but only with permission). Students may not re-enroll in a course for which an incomplete remains on their records.
Degrees Offered
The School of Dentistry offers a four-year professional program leading to the doctor of dental surgery (D.D.S.) degree, and the bachelor of science degree in dental hygiene (B.S.). The School offers graduate programs leading to a master of science degree in oral biology or in dental hygiene education (M.S.), and graduate certificates in recognized dental clinical specialties. In addition, the school participates in UMKC's Interdisciplinary Ph.D. program through the discipline of oral biology. Please refer to the School of Graduate Studies section of the catalog for information on admission criteria and degree requirements for the IPh.D program.

Academic Standards
Professional education in the health sciences manifests characteristics that are distinct from other advanced educational programs. Academic standards of the School of Dentistry are established to ensure that the public, whose health will be entrusted to graduates of the School’s programs, will receive care of professionally acceptable quality and that the care will be provided in an ethical and professional manner. The School's academic requirements are described in the following two sets of standards, one for scholarly achievement and one for professional conduct.

Standards of Scholarship
1. Pre-doctoral dental and pre-baccalaureate dental hygiene students must maintain at least a 2.5 GPA each semester in dental school. Failure to attain a 2.5 GPA in any semester will result in the students being placed on probation for the next semester. All students who are placed on probation must review their academic progress with the chair of the Academic Standards Committee. A second consecutive semester with a GPA below 2.5 will result in dismissal from the School. A total of three semesters with GPAs below 2.5 will result in dismissal from the School. For a semester to count toward removing students from probation, they must be enrolled full-time (at least 5 hours in summer or 12 hours in fall or spring semesters). Two semesters separated by a summer session in which the student is enrolled in less than five credit hours will be considered consecutive semesters.

2. Failure of any course (receiving a grade of F or No Credit) will necessitate additional work to remove or replace the F or No Credit. The course may be repeated at another dental school or dental hygiene program, with the approval of the associate dean for academic affairs, or during the next offering of the course at this school. Students will receive whatever grade they earn in the repeated courses and both grades will appear on their transcript and be included in the grade-point average. Students who fail only one course in a given semester may petition the course instructor for a remediation program if their failure was the result of performance slightly below acceptable standard (e.g., 60 percent where 65 percent is required for passing, or poor performance on one section of the course with acceptable performance in other sections). Any remediation program can take whatever form the course instructor deems appropriate. Possible examples:
   - Independent study for a number of weeks followed by an examination.
   - Remedial summer laboratory work followed by a laboratory examination.
   - A series of written exercises followed by an examination.
If students successfully complete a remediation program, their grades of F or No Credit will be changed to grades of D or Credit. A second failure or No Credit in the remediated course will result in dismissal from the program.

3. Any student who fails a course will be required to meet with the Academic Affair dean to prepare an altered curriculum plan that includes the completion of this course for the Committee's approval. An approved altered curriculum plan may result in an extension of the academic program because the student has demonstrated difficulty in dealing with the standard curriculum
and may need additional coursework, review and/or supplemental instruction to successfully complete the curriculum.

**Standards of Professional Conduct**

1. Dental and dental hygiene students must achieve and consistently demonstrate acceptable levels of personal hygiene and dress.

2. Dental and dental hygiene students must achieve and consistently demonstrate concern for patients, peers, and others. Dental and dental hygiene health care providers have a duty to ensure:
   a. That patients are treated according to their desires and must be included in treatment decisions.
   b. Patient confidentiality in the entire range of the provider-patient relationship which includes dental records.
   c. That no harm or potential harm is done to the patient either through intent, ignorance, lack of preparation for the patient encounter, lack of skill, personal impairment of any kind.
   d. That no patient is "abandoned" which is defined as discontinuance of care without just cause and without giving the patient adequate notice and the opportunity to obtain the services of another provider.
   e. That the patient’s welfare (i.e. the provision of competent and timely delivery of dental care within the bounds of clinical circumstances as presented by the patient such as needs, desires and values) is paramount and takes precedence above all else. This also includes the obligation to: 1) identify and report perioral signs of abuse and neglect and to consult with faculty to report suspected cases to proper authorities as required by law; and, 2) report instances of faulty treatment whether intentional or not, to the appropriate faculty member.
   f. That all people including patients, staff, faculty and all other individuals are treated fairly, respectfully, and without prejudice.
   g. All standards and requirements of patient care established by the School of Dentistry are followed.

3. Dental and dental hygiene students' behavior must exemplify the highest moral and ethical standards. The following represent conduct that is incompatible with these standards:
   a. Any behavior that tends to gain an unfair advantage for any student in an academic matter. This includes, but is not necessarily limited to, the following guidelines:
      - No student shall during an examination have, use, or solicit any unauthorized information or material (written or oral), copy from another student's paper or discuss the examination with any other person.
      - No student shall during an examination knowingly give any unauthorized aid to another student.
      - No student shall acquire by any means knowledge of the contents of an examination yet to be given.
      - No student shall fraudulently claim for credit any classroom, clinical, laboratory, or other procedure or assignment performed by an unauthorized person, including a fellow student.
   b. Anyone who has reasonable cause to believe that a student has acted unethically is obligated to bring the matter to the attention of the assistant dean for student programs or his/her designee who will follow the process identified in the Preliminary Procedures section of the UMKC School of Dentistry Honor Council Due Process Procedures for Violations of the Standards of Professional Conduct, to determine whether there has been a violation and whether charges should be brought.

4. Serious deficiencies in conduct as listed in the School of Dentistry Standards of Professional Conduct, or as outlined in Section 200.010, Standards of Conduct, of the University of Missouri
Collected Rules and Regulations, by a dental or dental hygiene student shall be reported to the assistant dean for student programs or his/her representative, who will initiate the process as listed under "Preliminary Procedures".

**Oral Biology Interdisciplinary Ph.D.**
The Ph.D. program at UMKC is interdisciplinary. This program is described in more detail in the Oral Biology Interdisciplinary Ph.D. Program within the Graduate Studies section of this catalog.

Students interested in studies at the doctoral level in the discipline of oral biology should apply to the Interdisciplinary Ph.D. program in the School of Graduate Studies.

Detailed information on the general and discipline-specific admission requirements for the Ph.D. can be found in the School of Graduate Studies section of this catalog.

**Academic Standards and Procedures: Advanced Education/Graduate Students**
The following academic standards and the procedures to be used in dealing with cases of academic difficulty apply to students in all advanced education/graduate programs of the School of Dentistry.

**Standards of Scholarship**
1. Graduate students, regardless of classification, must maintain a 3.0 (B) GPA for all coursework taken for graduate credit at UMKC.
2. Graduate students must maintain a 3.0 (B) GPA in their graduate dental certificate specialty coursework.*
3. Grades in graduate dental certificate specialty area coursework must be B or better. Any graduate dental certificate specialty area course that is graded below B must be repeated.*

* Applies only to students enrolled in graduate dental certificate programs.

**Probation**
1. Whenever the overall GPA for UMKC courses taken for graduate credit by a graduate student of any classification falls below 3.0 (B), the student's status for the next term becomes "On probation - See principal graduate adviser." The principal graduate adviser will review the student's progress and provide counsel, and the following conditions apply:
   a. A graduate student on probation who is not restored to good academic standing by the end of two successive semesters will be declared ineligible to re-enroll.
   b. While on probation, a graduate student must achieve a 3.0 term GPA to enroll for the ensuing term.
   c. A graduate student on probation will not be restored to good standing until a cumulative graduate-credit GPA of at least 3.0 is achieved.
2. Whenever the overall GPA for courses taken in the student's graduate dental certificate specialty area falls below 3.0, the student will be placed on probation and the following conditions apply:*  
   a. A graduate student on probation who is not restored to good academic standing by the end of two successive semesters will be declared ineligible to re-enroll.
   b. While on probation, a graduate student must achieve a 3.0 graduate dental certificate specialty area GPA to enroll for the ensuing term.
   c. A graduate student on probation will not be restored to good standing until a graduate dental certificate specialty area GPA of at least 3.0 is achieved.

* Applies only to students enrolled in graduate dental certificate programs.
Dismissal

1. A graduate student who is on probation and fails to attain an overall GPA of at least 3.0 by the end of two successive semesters will be dismissed from the program.
2. A graduate student who is on probation and fails to attain a 3.0 term GPA for the succeeding term will be dismissed.
3. A graduate student who is on probation and fails to attain a graduate dental certificate specialty area GPA of at least 3.0 by the end of two successive semesters will be dismissed from the program. *
4. A graduate student who is on probation and fails to attain a 3.0 graduate dental certificate specialty area GPA for the succeeding term will be dismissed.*
5. A graduate student who receives more than four hours of 2.0 (C) grades or below for courses included in the student's graduate program of studies will be dismissed.*

* Applies only to students enrolled in graduate dental certificate programs.

Appeal

Any student who is dismissed from the program has the right to appeal that decision. Appeals must be made in writing to the associate dean for academic affairs within one week from the time the student receives a notice of dismissal. The associate dean for academic affairs in conjunction with the chair of the Advanced Education Committee shall select a hearing panel of five members of the Advanced Education Committee to hear the student's appeal. At least one member of the hearing panel will be a student. The program director of the program in which the appealing student is enrolled shall be ineligible to sit on the panel. The hearing panel will be chaired by the associate dean for academic affairs. A meeting of the hearing panel will be scheduled within two weeks of the receipt of the student's appeal. During the time the appeal process is being conducted the student shall be allowed to continue in the program.

The hearing panel shall be provided with written statements from the student and the program director as well as all relevant records and documents. The program director or designated substitute and the appealing student must attend the hearing to provide additional information and answer questions from the hearing panel. Other individuals who have information relevant to the situation may be invited to present their information and answer questions for the panel. The student may have an adviser present to advise the student, but this adviser shall be limited to providing advice to the student.

After reviewing the information and conducting the hearing, the hearing panel shall make its recommendation regarding disposition of the case to the dean. All five appointed members of the hearing panel shall have a vote. In case of a tie, the associate dean for academic affairs shall cast the deciding vote. The dean of the School of Dentistry will make the final decision and communicate that decision to the student and the program director.
Division of Dental Hygiene

Dental School, Room 415
(816) 235-2050

Director, Division of Dental Hygiene:
Kimberly S. Bray, R.D.H., M.S.

- About the Undergraduate Dental Hygiene Program
- Job Opportunities
- Licensure Examinations
- Professional Associations
- Scholarships and Awards
- Related Information
- Academic Standards
- Undergraduate Program
  - Bachelor of Science in Dental Hygiene
  - General Education Requirements
  - Student Learning Outcomes
  - Entry Level Program
    - Admission Requirements
    - Program Requirements
  - Degree Completion Program
    - Admission Degree Completion Program
    - Program Requirements
- Dental Hygiene (DENT-HYG) Courses

About the undergraduate program in Dental Hygiene
Dental hygiene is a rapidly growing and increasingly dynamic allied health profession for qualified persons who wish to participate as active members of a health field. Service to mankind is the primary purpose of health professions. The dental hygienist with a baccalaureate degree accomplishes this objective through a variety of challenging and rewarding opportunities.

There is informal evidence that a nine-month dental hygiene program existed at UMKC (then the Kansas City Western Dental College) in 1922-23, as did a one-year program during the ’30s. However, concrete documentation indicates that the official program began in 1952.

The program in dental hygiene is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Post-Secondary Accreditation and the U.S. Department of Education.

The student at UMKC can earn a bachelor of science degree in dental hygiene in two ways. The first alternative offers an opportunity for the student who has completed two academic years of liberal arts pre-requisites at any accredited community/junior college, college or university to matriculate into the entry level clinical dental hygiene program. The second alternative provides for the licensed dental hygienist with a certificate or associate degree an opportunity to earn a baccalaureate degree (degree completion).
**Licensure Examinations**
To practice dental hygiene legally, the student must take and successfully pass a computer-based examination, the National Board Dental Hygiene Examination. This examination is administered to all dental hygiene students in the country. The student also must successfully complete a clinical examination and an examination on the dental laws of the desired state of licensure. After written and clinical examinations have been completed, the graduate may apply for licensure in any state. Additional information regarding these examinations and the licensure process is given during the dental hygiene program.

**Professional Associations**
The School of Dentistry encourages students to participate in professional association activities. Dental hygiene students are encouraged to join and participate actively in the Student American Dental Hygienists' Association, the UMKC Dental Hygienists' Alumni Association and the American Dental Education Association. Through participation in these associations, students can network with and become familiar with the professional opportunities and activities of area dental health professionals.

**Job Opportunities**
The major responsibilities of the dental hygienist are preventive in nature. In the private dental office, the dental hygienist may be responsible for providing patient education, exposing and processing dental radiographs, conducting head and neck examinations, as well as providing a thorough oral prophylaxis, non-surgical periodontal therapy, local anesthesia, diet analysis and other services as delegated by the licensed dentist. In some large offices the dental hygienist may serve as a manager of office procedures. Dental hygiene services vary from state to state according to the laws that govern the practice of dental hygiene.

In public health and community agencies, the dental hygienist is concerned with the oral health of the community being served. Major responsibilities may be assessing the oral health of a given population or developing and implementing a dental health program. In hospitals and nursing homes, the dental hygienist may function as a health educator, a clinician or a resource person. In other instances, hygienists are employed for clinical and descriptive research projects.

Although the majority of dental hygiene graduates are involved in private practice, the following practice settings may also be available:
- Federal, state and local health departments.
- Hospitals and nursing homes.
- School districts.
- Health maintenance organizations.
- Educational programs for dental, dental hygiene and dental assisting students.
- Private and public centers for pediatric, geriatric and other special needs groups.

Graduates can take advantage of the Dental School's job placement assistance service. The School of Dentistry's library maintains an extensive database of job opportunities in several states. Faculty members are available for job-placement counseling to assist graduates with placement decisions.

**Scholarships and Awards**
In addition to the University and federal financial aid opportunities, the Division of Dental Hygiene has numerous scholarship sources available to dental hygiene students. Students must meet financial and academic qualifications. Contact the division for more information.
Application for Student Aid (FAFSA) is required for application for Division scholarships. The Division will provide scholarship information to admitted and enrolled students.

During the last semester of the program, dental hygiene students who have distinguished themselves are eligible to be selected from the graduating class to become members of Sigma Phi Alpha, a national dental hygiene honor society. Students who receive this honor exhibit outstanding character and leadership during the professional program.

The Greater Kansas City Dental Hygienists' Association sponsors a Community Service Award; the Missouri Dental Hygienists' Association sponsors the Outstanding Dental Hygiene Graduate Award; and the UMKC Dental Hygienists' Alumni Association sponsors the Outstanding Clinician Award. These awards are presented annually to graduating seniors.

**Academic Standards**

Professional education in the health sciences manifests characteristics that are distinct from other advanced educational programs. Academic standards of the School of Dentistry are established to ensure that the public, whose health will be entrusted to graduates of the school’s programs, will receive care of professionally acceptable quality and that the care will be provided in an ethical and professional manner. The School's Academic Requirements are described in the following two sets of standards, one for scholarly achievement and one for professional conduct, located in the Student Handbook.

**Attendance**

Regular attendance at all classes and clinical sessions is required during the professional program. The student is responsible for familiarization with all classroom and clinical requirements and assignments.

**Scholastic Honesty**

The Division of Dental Hygiene assumes all students are enrolled to learn. Any cheating is contradictory to the purposes of students and this institution. Any dishonesty detected in a course (including during examinations or in submitting plagiarized material) may result in an F grade in the course, and may be cause for dismissal or suspension from the Division of Dental Hygiene.

**Repeated Courses**

A dental hygiene student who wishes to repeat a course must submit a course repeat form to the UMKC Registration Office no later than the end of the fourth week of the term if that repeat is to be included in GPA calculations. Students who are repeating a course must have prior approval of the director of the Division of Dental Hygiene.

**Advanced Placement**

The general examination offered by the College Level Examination Program (CLEP) will not be accepted for degree credit. However, credit received through specific or subject examinations will apply toward a bachelor of science degree in dental hygiene. Although hours of credit may be received in natural sciences, it is preferred that an applicant to the dental hygiene program complete the specific science prerequisites.
For more information regarding admission to either the clinical entry level or degree completion program in dental hygiene, contact the Division of Dental Hygiene.

Related Information

Expenses (Basic Preparation)
Approximate expenses for the basic preparation dental hygiene program are listed below. These do not include room and board, expenses for personal items or educational fees.

Instrument rental and supplies (entire program) $4,075
Textbooks (entire program) $2,663
Uniforms, lab coats, etc. (entire program) $600
National, regional and state licensure fees $1,500
Professional association fee $90

Note: Fees are subject to change without notice. An advance deposit of $100 is required on admission to the program. This payment shall be credited to the student's educational fee upon enrollment. The fee is non-refundable except by special order of the dean of the School of Dentistry and as approved by the director of admissions.

Financial Assistance
In addition to the University's financial aid services, the UMKC Dental Hygienists' Alumni Association (UMKC DHAA) has several scholarship funds and grants for dental hygiene students who are in need of financial assistance and who qualify academically. For more information, see Scholarships and Awards.

Bachelor of Science in Dental Hygiene
The following competencies have been adopted by the faculty in the Division of Dental Hygiene as the skills, knowledge and values every graduate must be able to consistently and independently demonstrate to qualify for graduation. The School of Dentistry, Division of Dental Hygiene assessment plan calls for theses competencies to be assessed throughout the classroom, laboratory and patient care experiences during the student's tenure in the program in the form of papers, case study presentations, student portfolios, clinical competency examinations, community assessment and other appropriate assessment measures.

The UMKC dental hygiene graduate will be competent in:

- Assessing persons of all ages and stages of life in a diverse society.
- Treatment planning and case presentation for persons of all ages/stages of life in a diverse society.
- Health education strategies for the prevention of disease and the promotion of health.
- Provision of preventive and therapeutic dental hygiene services for persons of all ages/stages of life.
- Use of support procedures to facilitate the provision of dental hygiene care.
- Infection and hazard control procedures to prevent transmission of infectious diseases.
- Management procedures (emergency management, communication, etc.)
- Community oral health strategies in a culturally diverse society.
- Utilization of information technology to assist in evidence-based decision making.

Students must complete the required writing intensive courses within the dental hygiene curriculum with a grade of "C" or higher thereby meeting the WEPT requirement for BSDH candidates.
This clinical entry level program is for the individual who wants to go into the field of dental hygiene. The primary goals of the basic preparation bachelor of science degree program in dental hygiene are to prepare dental hygienists to perform competently in clinical practice and to perform competently in clinical practice and/or community oral health program planning, clinical teaching, special patient care, practice management and research.

**Admission to the Clinical Entry Level Program**

Admission is on a selective basis and requires more than simply meeting certain course or GPA requirements. Factors considered in the selection process are the candidates' academic credentials, letters of evaluation, a personal interview, motivation and all other information submitted by the candidates. Formal applications for admission to the dental hygiene program must be submitted no later than Feb. 1 of the year that the student desires admission. Classes formally begin each year at the end of August.

Minimum requirements and credentials for application are all of the following:

1. Graduation from an accredited high school or its equivalent.
2. Satisfactory completion of approximately two academic years or 60 semester hours of college. (The 60 semester hours must satisfy the general education requirements, which are specified later in this section. All general education requirements must be completed prior to entrance into the dental hygiene program.)
3. Application to UMKC.
4. Supplemental application for admission to the Division of Dental Hygiene.
5. College transcripts of all college coursework.
6. A cumulative college GPA of at least 2.5.
7. A college science GPA of at least 2.5.
8. Three evaluation and reference forms.
9. Personal interview with at least two members of the Dental Hygiene Admissions Committee (interviews will be scheduled after February).
10. For international applicants, a satisfactory TOEFL score (at least 550 on the paper test or 213 on the computer-based version).

**Notification of Admission**

Applications for admission are reviewed by the School of Dentistry Dental Hygiene Student Admissions Committee. After a decision is reached on an application, notification of acceptance is made by mail. The applicant has 30 days from the date of the acceptance letter to make a required non-refundable $100 deposit. This deposit is applied to enrollment fees. Several applicants are placed on an alternates list. In the event that a position becomes available, an applicant from this list is chosen to fill the vacancy. Alternates may be accepted through the first week of the program.

**Program Prerequisites**

Students must complete a minimum of 60 semester hours prior to entry. Credits will be granted for courses taken at other institutions which are substantially equivalent to those offered at the University of Missouri-Kansas City, provided a grade of C or above was received. Credit hours listed with the required courses shown below may vary according to the educational institution. It is recommended that you consult with your adviser.
The following courses must be completed prior to entering the dental hygiene program:

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communicating</strong></td>
<td>ENGLISH 110</td>
<td>English I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Communicating</strong></td>
<td>ENGLISH 225</td>
<td>English II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Communicating</strong></td>
<td>COMM-ST 110</td>
<td>Effective Speaking</td>
<td>3</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>MATH 110</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td><strong>Higher-order Thinking, Managing Information and Valuing</strong></td>
<td>PHILOS 210 or PHILOS 222</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Higher-order Thinking, Managing Information and Valuing</strong></td>
<td>HISTORY 201, HISTORY 202, HISTORY 206 or HISTORY 208</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Higher-order Thinking, Managing Information and Valuing</strong></td>
<td>ANTHRO 102 or ANTHRO 103</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Higher-order Thinking, Managing Information and Valuing</strong></td>
<td>COMP-SCI 100 or above</td>
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<td></td>
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<tr>
<td><strong>Higher-order Thinking, Managing Information and Valuing</strong></td>
<td>MATH 160 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Humanities and Fine Arts</strong></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Humanities and Fine Arts</strong></td>
<td></td>
<td>One 3 credit hour course chosen from English, Communication Studies, Foreign Language or Philosophy AND one 3 credit hour course from Art/Art History, Conservatory or Theater.</td>
<td></td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
<td>(9 hours)</td>
<td></td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
<td>General Sociology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
<td>Constitution Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Biological and Physical Sciences</strong></td>
<td></td>
<td>(13-19 hours)</td>
<td></td>
</tr>
<tr>
<td><strong>Biological and Physical Sciences</strong></td>
<td></td>
<td>Chemistry</td>
<td>4-6</td>
</tr>
<tr>
<td><strong>Biological and Physical Sciences</strong></td>
<td></td>
<td>(Must be equivalent to UMKC CHEM 211)</td>
<td></td>
</tr>
<tr>
<td><strong>Biological and Physical Sciences</strong></td>
<td></td>
<td>Microbiology</td>
<td>3-5</td>
</tr>
<tr>
<td><strong>Biological and Physical Sciences</strong></td>
<td></td>
<td>Anatomy</td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Biological and Physical Sciences</strong></td>
<td></td>
<td>Physiology</td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Biological and Physical Sciences</strong></td>
<td></td>
<td>(If taking a combined Anatomy &amp; Physiology course, it must be a sequence of two semesters.)</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td>(10-15 hours)</td>
<td>10-15</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td>Computer application courses are highly recommended.</td>
<td></td>
</tr>
</tbody>
</table>
The dental hygiene program begins in August of each year and continues for two academic years with a summer session between years. For more information, contact the program director.

### First Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 9701</td>
<td>Head and Neck Anatomy</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 3000</td>
<td>Dental Morphology</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 3020</td>
<td>Dental Radiology</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 3080</td>
<td>Introduction to the Preventive Practice of Dental Hygiene</td>
<td>4.0</td>
</tr>
<tr>
<td>DENT-HYG 3080L</td>
<td>Pre-clinical Dental Hygiene</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 3320</td>
<td>Oral Health Behavior Change</td>
<td>3.0</td>
</tr>
<tr>
<td>LS-PHYS 3070</td>
<td>Oral Physiology</td>
<td>3.0</td>
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<td><strong>Total</strong></td>
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#### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT-HYG 3200</td>
<td>Histopathology</td>
<td>3.0</td>
</tr>
<tr>
<td>DENT-HYG 3210</td>
<td>Applied Biochemistry</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 3220</td>
<td>Dental Biomaterials</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 3280C</td>
<td>Dental Hygiene Clinic I</td>
<td>3.0</td>
</tr>
<tr>
<td>DENT-HYG 3285</td>
<td>Seminar In Dental Hygiene I</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 3260</td>
<td>Principles of Periodontics</td>
<td>3.0</td>
</tr>
<tr>
<td>DENT-HYG 3300</td>
<td>Radiographic Interpretation</td>
<td>0.5</td>
</tr>
<tr>
<td>DENT-HYG 3340</td>
<td>Principles of Public Health</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>17.5</strong></td>
</tr>
</tbody>
</table>

### Second Year

#### Summer Semester

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>DENT-HYG 4020</td>
<td>Local Anesthesia</td>
<td>3.0</td>
</tr>
<tr>
<td>DENT-HYG 4060C</td>
<td>Dental Hygiene Clinic II</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 4065</td>
<td>Seminar in Dental Hygiene II</td>
<td>1.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6.0</strong></td>
</tr>
</tbody>
</table>

#### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>DENT-HYG 4050</td>
<td>Periodontics II</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 4080</td>
<td>Intro. To Research Design</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 4100</td>
<td>Pharmacology</td>
<td>3.0</td>
</tr>
<tr>
<td>DENT-HYG 4120</td>
<td>Seminar in Dental Hygiene III</td>
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</tr>
<tr>
<td>DENT-HYG 4120C</td>
<td>Dental Hygiene Clinic III</td>
<td>4.0</td>
</tr>
<tr>
<td>DENT-HYG 4220</td>
<td>Community Oral Health Field Exp</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT-HYG 4400</td>
<td>Nutrition &amp; Oral Health</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18.0</strong></td>
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</table>
Spring Semester
DENT-HYG 4210  Practice Management  3.0
DENT-HYG 4240  Ethics & Jurisprudence  1.0
DENT-HYG 4260  Senior Seminar  2.0
DENT-HYG 4260C Dental Hygiene Clinic IV  4.0
Electives (Select One)
DENT-HYG 4320  Special Patient Care Practicum  2-4
DENT-HYG 4330  Oncology Practicum  1-4
DENT-HYG 4340  Community Dentistry Practicum  2-4
DENT-HYG 4350  Periodontal Therapy Practicum  1-4
DENT-HYG 4380  Research Practicum  2-4
DENT-HYG 4660  Independent Study  1-4
Total  12-15
Total Hours  70-73
A minimum of 124 semester hours is required for a bachelor's degree in dental hygiene.
The Division of Dental Hygiene reserves the privilege of making changes and improvements in course
sequence and content to assure the best dental hygiene education for its students.
This program is designed for students who have completed formal dental hygiene programs at other
educational institutions and desire to continue their education toward a baccalaureate degree.
Formal applications for admission to this program must be submitted by Feb. 1 for the class beginning in
August of each year. The program may be completed on a full- or part-time basis. Basic requirements and
credentials for admission are all of the following:

1. Graduation from an accredited dental hygiene program.
2. Results and successful completion of the National Board Examination for dental hygiene.
3. High school transcripts.
5. Satisfactory grade point average.
6. Application for admission to UMKC.
7. Supplemental application for admission to the Division of Dental Hygiene.
8. Three reference forms (including one from the director of the accredited dental hygiene program
attended).
9. An interview with the admissions committee

All students enrolled in the degree completion program must complete the general education
requirements of the Division of Dental Hygiene prior to completion of the baccalaureate degree.
Refer to the general education requirements stated under the description of the basic preparation
program for a listing of those courses. Courses that the student has not completed will be
included in the individual program of study for that student.

An individual program of study will be developed for each student depending on the number of college
hours completed previously. The following courses are available through the Division of Dental Hygiene:
**Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT-HYG 5595*</td>
<td>Scientific Writing</td>
<td>1</td>
</tr>
<tr>
<td>DENT-HYG 4020*</td>
<td>Local Anesthesia and Pain Control</td>
<td>2</td>
</tr>
<tr>
<td>DENT-HYG 4040*</td>
<td>Research and Instruction</td>
<td>1-2</td>
</tr>
<tr>
<td>DENT-HYG 4500*</td>
<td>Seminar in Health Care Issues</td>
<td>1-2</td>
</tr>
<tr>
<td>DENT-HYG 4620*</td>
<td>Principles of Dental Hygiene Education</td>
<td>3</td>
</tr>
<tr>
<td>DENT-HYG 4080*</td>
<td>Introduction to Research Design</td>
<td>2</td>
</tr>
<tr>
<td>DENT-HYG 4625</td>
<td>Dental Hygiene Administration</td>
<td>3</td>
</tr>
<tr>
<td>DENT-HYG 4600*</td>
<td>Advanced Clinic Concepts and Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4640</td>
<td>Student Teaching and Conference I</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4680*</td>
<td>Dental Hygiene Clinical Instruction I</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4685</td>
<td>Dental Hygiene Clinical Instruction II</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4650</td>
<td>Student Teaching and Conference II</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4630</td>
<td>Practicum in Dental Hygiene Administration</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4635</td>
<td>Practicum in Clinical Supervision</td>
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<tr>
<td>DENT-HYG 4380</td>
<td>Research Practicum</td>
<td>2-4</td>
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<tr>
<td>DENT-HYG 4660</td>
<td>Independent Study</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4340</td>
<td>Community Dentistry Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4350</td>
<td>Periodontics Co-Therapy Practicum</td>
<td>3</td>
</tr>
<tr>
<td>DENT-HYG 4330</td>
<td>Oncology Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENT-HYG 4320</td>
<td>Special Patient Care Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

* Required courses in the degree completion curriculum.

The student must complete 30 credit hours in residence and have a minimum of 124 semester hours for a baccalaureate degree in dental hygiene. Electives may be taken in the School of Dentistry, College of Arts and Sciences, School of Education or Henry W. Bloch School of Business and Public Administration. The particular choice of study will be determined by each student in consultation with the director of the degree completion program.

**Student Learning Outcomes**

The following competencies have been adopted by the faculty to assure our graduates are adequately prepared to succeed in the dynamic job market of their chosen area of expertise. The assessment plan provides direct and indirect measures of these competencies through exit interview, portfolio, California critical thinking skills test, Information Competency exam, and publication rate.

The competencies expected of a graduate are:

- Managing self (ability to take responsibility for one's own education and performance, including the awareness, development and application of one's own skills and competencies).
• Managing Information (ability to pose a researchable question, collect evidence, understand and apply evidence and use technology to manage literature and data).
• Communicating (interacting effectively with a variety of individuals and groups to facilitate the gathering, integrating and conveying of information in many forms; i.e., verbal, written, visual).
• Managing people and tasks (the ability to direct, plan, organize and coordinate work done by others; involves making decisions, motivating people and managing conflict).
• Mobilizing innovation and change (conceptualizing and setting in motion ways of initiating and managing change that involves significant departures from the current mode).
• Ethical decision making (ability to consider ethical issues and assess consequences of decision making).
Doctor of Dental Surgery Program

- Admission Information
  - GPA/College Hour Minimums
  - Pre-Dental Course Requirements
  - Dental Admission Test
  - Personal Interview
  - Candidate Subjective Criteria
  - Technical Standards
  - Notification of Admission
  - Minority Recruitment Program
  - Reserved Admission Program
  - Disability Services
- Doctor of Dental Surgery
  - Student Learning Outcomes
  - Program Requirements
  - Graduation Requirements
- Cost Estimates
- Student Organizations/Activities

Admission Information
Any college student or graduate can apply for admission to the four-year doctor of dental surgery program. A student should be a U.S. citizen or permanent resident of the U.S. Priority is given to Missouri residents. The School also has contractual or other agreements with the states of Kansas, Arkansas, New Mexico and Hawaii to consider qualified residents for acceptance from those states. Preferred consideration will be given to applicants who are residents and high school graduates of the states listed. Applications from other states are welcome and are considered on an individual basis for highly qualified candidates.

Candidates may be considered for acceptance after successful completion of a minimum of 90 hours of college credit. After completion of a minimum of 120 hours of college credit, the accepted applicant will be eligible to enroll in the School of Dentistry. All candidates for this program are encouraged to complete a baccalaureate degree before entry. In fact, college degree-holders with a broad educational background are the preference of the Dental Student Admission Committee.

Admission is on a selective basis and requires more than meeting course or college-hour requirements. Factors considered in the selection process are the candidates' academic credentials, including Dental Admission Test (DAT) scores, letters of evaluation, personal interview, evidence of the subjective criteria identified in a later section, and all other information submitted by the candidates. Approximately 109 candidates are admitted to the D.D.S. program annually.

Those who want to apply for admission must apply online through the AADSAS Application Service administered by the American Dental Education Association at http://www.adea.org/.
Candidates must submit applications no later than Oct. 1 of the year prior to desired enrollment. **Sept. 1 is the UMKC preference deadline date for UMKC to receive application materials.** Be aware that approximately 4-8 weeks are required by AADSAS to process applications and deliver them to the dental school.

Counseling by the School of Dentistry's admissions staff is available to those interested in applying for admission. It is advisable to seek this counseling early in the undergraduate program.

**GPA/College Hour Minimums**
The following are the Dental Student Admission Committee’s guidelines for GPA/college semester credit hour/Dental Admission Test (DAT) minimums and preferences:

- Preference will be given to candidates with 90 or more semester hours of college credit at the time of application with a science GPA of 3.40 or higher and/or a DAT academic average of 17 or higher – the overall GPA will be considered although it will not receive the same weight as the science GPA.
- A candidate with 90 or more semester hours of college credit at the time of application with a science GPA of 3.00 and a DAT academic average of 16 or higher can be considered for an interview – the overall GPA will be considered although it will not receive the same weight as the science GPA.
- The minimum science GPA which will be considered for an interview is 3.0.
- It should be noted that no more than 60 hours of college credit can be earned at a community college and preference will be given to candidates who complete the science prerequisites at a four-year institution.

A broad liberal education culminating in a bachelor’s degree is strongly encouraged of applicants seeking admission into this program. Recent history indicates that admission of a candidate who does not have a B.S./B.A. degree or who is not likely have one at the time of enrollment in the D.D.S. program is rather rare.

**Pre-Dental Course Requirements**
There is no required college major for admission to the School of Dentistry. However, certain courses are required prior to entering:

**Biology**
A minimum of four semesters of biology with labs. In particular, we require general biology I, anatomy, physiology and cell biology. Other courses that have counterparts in the dental curriculum (i.e., histology, neuroscience, microbiology) are strongly recommended.

**Chemistry**
A minimum of two semesters of general chemistry with labs (Chemistry I and Chemistry II).
A minimum of two semesters of organic chemistry with labs (Organic Chemistry I and Organic Chemistry II).
A minimum of one semester of biochemistry (lab is recommended but not required).

**Physics**
A minimum of two semester of physics with labs (Physics I and Physics II).
**English**
A minimum of 6 credit hours of English composition. (Courses in speech are not acceptable as substitutes for English composition.)

**Other**
It is advantageous to have course credit in mathematics, formal logic, histology, business, social/behavioral sciences (such as psychology), communication skills, computer science, the humanities and applied arts (such as sculpting, drawing, etc.).

**Dental Admission Test**
All dental school applicants must take the Dental Admission Test (DAT) administered by the American Dental Association. The DAT is given throughout the year by computer at designated testing centers, and a score must be submitted to be fully considered.

DAT scores are based on a range of 1 to 30, with 19.0 generally being the national average of accepted dental students. The Dental Student Admission Committee requires a minimum DAT score of 16, but prefers that a candidate's DAT scores be 17 or higher to be considered for admission.

For more information or to request a DAT application go to http://www.ada.org. Contact the School of Dentistry's Office of Student Programs at (816) 235-2080 (local) or (800) 776-8652 (toll-free) to learn about our online **DAT Prep Course**.

**Personal Interview**
A personal interview at the School of Dentistry is required of applicants completing the necessary college hours, grade-point average and DAT requirements. The interview is by invitation only, an applicant for admission may not request it.

**Candidate Subjective Criteria**
When considering candidates for possible admission, the UMKC School of Dentistry's Dental Student Admission Committee (DSAC) reviews the entire scope of information that is available on each applicant. For each candidate the sources of this information include the academic record (i.e., overall GPA, science GPA and Dental Admission Test scores), AADSAS essay, responses to items on the UMKC School of Dentistry's Application Survey, letters of reference, interview assessment, and any other information provided by the candidate (e.g., personal statement). Specifically, the committee will expect evidence of the following factors in making the difficult choices among candidates:

1. Demonstrated investigation of the profession of dentistry. It is strongly suggested that candidates observe in a minimum of five different dental offices (the offices of general dentists and specialists) and acquire a minimum of 80-100 hours of dental office observation, preference is given to candidates who have worked in a dental office.
2. Evidence of social conscience and compassion (i.e., caring attitude, sensitivity to those in need, significant community activities). It is strongly suggested that this be active and ongoing participation in volunteer activities.
3. Indication of fundamental personal character (i.e., integrity, maturity, self-reliance, leadership skills).
4. Evidence of critical thinking and problem solving ability (e.g., performance in courses requiring this skill such as in laboratory segments, in formal logic or in research experiences).
5. Significant and sustained level of academic achievement based on full course loads with evidence of a broad science and liberal arts education (i.e., fine arts, business, mathematics, humanities, computer science, etc.).
6. Established effective interpersonal/communication skills (i.e., an ability to communicate orally and in writing, a capacity to listen, a personality conducive to forming personal and/or professional relationships, an involvement in a range of extracurricular activities, especially those in which significant leadership roles have been taken).

7. Demonstrated ability to balance full academic schedules with extracurricular involvement and/or employment (i.e., effective/efficient management of time).

Because the Dental School Admission Committee looks closely at information from all sources included in an applicant's file, it is in the candidate's best interest that this information is consistent among sources. This is especially true with information supplied directly by the candidate (i.e., AADSAS essay, UMKC School of Dentistry's Application Survey, interview and/or personal statement). You are strongly encouraged to review all written materials for consistency and accuracy before submission.

Finally, before developing these written materials, the candidate is strongly encouraged to honestly and critically assess himself/herself on all the qualities identified. Following this process, the candidate is urged to review drafts of these documents collectively (e.g., to check for completeness, accuracy and consistency) and to evaluate himself/herself comprehensively as if he/she were a member of the Dental Student Admission Committee. Where the candidate feels a question may arise from Committee review, the applicant is encouraged to address this in a personal statement/letter to the Committee.

**Technical Standards**

The dental degree signifies that the holder is a dentist who has received sufficient training in dental education to practice dentistry. It follows that graduates must have acquired and demonstrated the knowledge, skills and abilities to function in a broad variety of clinical situations and to render a wide spectrum of dental care.

While each application is reviewed individually, it is necessary that each candidate be able to observe and perform each task required by the curriculum of the school. Similarly, the school does not consider the waiver of required examinations a reasonable accommodation for individuals with learning disabilities. Learning disabled students, when appropriate, may be granted additional time on required examinations, be examined in separate testing facilities, or accommodated in other reasonable ways, but they will not be exempted from the requirement to take and pass such examinations. (Candidates with disabilities should contact the UMKC Office of Services for Students with Disabilities for information regarding definition and requirements for documentation of learning disabilities.)

Candidates for admission into the D.D.S. program must possess abilities and skills in the following areas to satisfactorily complete the curriculum:

**Observation**
Candidates must be able to accurately observe laboratory experiments, preclinical demonstrations, clinical laboratory procedures and patient-care activities.

**Communication**
Candidates must be able to communicate effectively and sensitively with patients and with all members of the health care team.

**Motor**
Candidates must have physical dexterity to master all aspects of patient care. They must be able to execute motor movements required to arrive at a diagnosis and treatment plan, and to provide patient care, including emergency treatment.
**Intellectual-Conceptual, Integrative and Quantitative Abilities**
A candidate must have intellectual-conceptual, integrative and quantitative abilities that include measurement, calculation, reasoning, analysis and synthesis. Problem solving, one of the critical skills demanded of dentists, requires all of these intellectual abilities. In addition, the candidate must be able to comprehend three-dimensional relationships and understand the spatial relationship of structures.

**Emotional and Behavioral Attributes**
In addition to these skills, candidates must possess the high moral and ethical standards demanded of dentists and must possess the capability required for full utilization of intellectual abilities, the exercise of good judgment, the prompt completion of responsibilities attendant to the diagnosis, treatment planning and care of patients, and the development of mature, sensitive and effective professional relationships with patients. Candidates must be able to cope with taxing workloads and to function effectively under stress. A candidate must also be able to adapt to changing environments, to display flexibility and to learn to function in the face of uncertainties in the clinical problems of many patients. In addition, personal qualities such as compassion, integrity, concern for others, interpersonal skills, interest and motivation should be assessed during the admissions and education processes. Technological accommodation can be made for some inadequacies in certain areas, but a candidate must be able to perform in a reasonably independent manner.

**Notification of Admission**
Applications for admission are reviewed by the Dental Student Admission Committee. In accordance with the guidelines of the American Dental Education Association, no notification of the admission decision is made to a candidate before Dec. 1 of the academic year prior to that applicant's class graduation date.

**Formal Notification**
After a decision is reached on an applicant, notification of acceptance is made by mail. Accepted candidates have 30 days from the date of an acceptance letter to make a required nonrefundable $200 deposit. If notification of acceptance is made after Feb. 1, the candidate must submit the deposit within 15 days of the date of acceptance.

Several individuals are placed on a list of alternates. In the event that a position becomes available, an applicant from this list is chosen to fill the vacancy. Notification of alternate status will be sent by mail. Notification of denial is also sent by mail. If applicants are interested in reapplying, they should make an appointment with a School of Dentistry director of admissions to discuss the reason for the denial. An explanation of the admission decision and advice will be offered to applicants to enhance their future applications.

**Minority Recruitment Program**
The School of Dentistry has an active recruitment program to encourage and assist qualified minority students, particularly those from under-represented groups in the dental profession, to pursue careers in dentistry. Native Americans, African Americans and Hispanics are strongly encouraged to seek admission to the school. Students desiring information should contact John Cottrell or cottrellj@umkc.edu, the Director of Minority Recruitment and Special Programs within the Office of Student Programs (816) 235-2080.

**Reserved Admission Program**
The Reserved Admission Program for the Doctor of Dental Surgery degree at the UMKC School of Dentistry enables highly motivated, ambitious, talented students to pursue their dream of becoming a dentist. Entry into the program is available to students from Missouri and Kansas who are in the early years of their undergraduate education.
This program is composed of three stages with the first two stages requiring formal application and review. The first stage is application and acceptance as a Provisional Reserved Admission Program Student. This step may be accomplished immediately following the completion of a minimum of but not more than four semesters of college credit with a cumulative 3.6 science and math GPA while being continuously enrolled in full-time course loads. In the second stage, provisional reserved admission program students meet additional objective and subjective criteria to move to full acceptance at the end of their undergraduate junior year. Students with full admission into the Reserved Admission Program are assured a seat in the D.D.S. class matriculating in August following the completion of their undergraduate studies, provided they meet the criteria for maintaining their status. The third stage is matriculation at the School of Dentistry.

For more information about this program or to request an application, contact the School of Dentistry's Office of Student Programs. (816) 235-2080 or dds@umkc.edu.

**Disability Services**
Federal law prohibits UMKC and the School of Dentistry from making pre-admission inquiry about disabilities. Information regarding disabilities given voluntarily or received inadvertently will not adversely affect any admission decision. Any accepted applicant requiring special services because of disability should notify the Office of Services for Students with Disabilities for accommodation services (816-235-5696).

**Cost Estimates**
The estimated cost (exclusive of living costs) for the four-year D.D.S. curriculum at the School of Dentistry is $150,157. The amount is based on fees established and costs existing at the time of printing. This is itemized by type of expense and by year.

**Note:** Educational fees and books/equipment costs are subject to change without notice.

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<thead>
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<td>Educational Fees (Resident)</td>
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<td>First-Year Total</td>
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<th>Second Year (Fall and Spring Semesters)</th>
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<tbody>
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<td>Books, Equipment and Supplies</td>
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</thead>
<tbody>
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<td>$7,365</td>
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<tr>
<td>Educational Fees (Resident)</td>
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<td>Third-Year Total</td>
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Fourth Year (one 13-week Summer term plus Fall and Spring Semesters)

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</thead>
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</tr>
<tr>
<td>Fourth-Year Total</td>
<td>$45,018</td>
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</tbody>
</table>

Four-Year Total: $177,350

Non-resident students are assessed an additional $13,039 each fall and spring semester and $6,520 for each of the two summer terms.

Agreements are in place for residents of Kansas, Arkansas, New Mexico and Hawaii to receive waivers of the non-resident fees.

**Tuition/Fee Policy for Elective Coursework Outside the School of Dentistry**

The dental “flat-rate” tuition and fees only applies to required courses within the DDS program. Dental students who elect to enroll in courses other than those required as part of the DDS curriculum will pay tuition and fees for those courses.

A dental student’s primary academic responsibility is successfully meeting the curricular expectations of the DDS program. Any coursework taken outside the curriculum requires that a student is in good standing and must be pre-approved by the Associate Dean for Academic Affairs.

Elective enrollment in coursework outside the School of Dentistry is not suggested during fall & spring semesters in years 1 & 2. Additionally enrollment in courses other than dental courses during preparation for National Board Part 1 (Summer D3) and National Boards Part II (Fall D4) should be limited.

Dental students considering course work outside the dental curriculum should also consider the financial aid implications of the additional course work. Students should work closely with the Student Financial Aid Office. The student would only be eligible for DDS financial aid, although Grad Plus loans may be available to select students.

**Student Organizations/Activities**

Dental students qualify for membership in a variety of student organizations. Most are affiliated with national dental organizations. Students can also participate in other non-dentistry oriented organizations.

Active student organizations within the school include:
- American Society of Dentistry for Children
- American Association of Women Dentist
- Student American Dental Hygiene Association
- UMKC Student Council
- Student National Dental Association
- Hispanic Dental Association
- Student Take Action
- UMKC Chapter of the Academy of LDS Dentist
- Interfraternity Council
- Delta Sigma Delta Fraternity
- Psi Omega Fraternity
- Xi Psi Phi Fraternity
- Student Professionalism & Ethics Club

**Doctor of Dental Surgery**
The mission of the Doctor of Dental Surgery program is to graduate a dentist who can deliver patient care with a scientific basis and a caring manner. Through the integration of the biomedical, behavioral, and clinical sciences, the graduate dentist will be able to function effectively as the leader of the oral health care team to provide comprehensive oral health care for diverse populations in a constantly changing society. Graduates must be able to use the skills of problem solving, decision-making and evaluation so that behaviors and practices are derived from intentional choices. They must become lifelong learners, directing their professional growth during and beyond the educational programs.

1. Apply the fundamental principles of the biomedical and behavioral sciences as they relate to the promotion and provision of oral health care.
2. Apply legal, ethical and regulatory principles to the provision of oral health care, including practice management.
3. Apply interpersonal and communication skills to empathetically and effectively care for diverse patient populations and function in the health care environment.
4. Apply critical thinking and problem solving skills to provide evidence-based patient-centered care.
5. Evaluate various models of oral health management and care delivery.
6. Participate in improving the oral health of individuals, families, and groups in the community through oral health promotion, education and interaction with other health professions.
7. Manage medical emergencies and complications that may occur during dental treatment.
8. Recognize and manage pain and anxiety, trauma, hemorrhage, and infection of the orofacial complex by selection, administration or prescription of pharmacological or non-pharmacologic agents in the treatment of dental patients.
9. Demonstrate competence in providing oral health care within the scope of general dentistry for children, adolescents, adults, and special needs patients. This includes:
   - Perform a complete dental examination to arrive at a diagnosis of the patient’s oral condition/s.
   - Develop, present and implement an integrated treatment plan to address a patient’s oral health needs.
   - Prevent, identify and manage periodontal conditions.
   - Prevent, identify and manage pulpal and periradicular conditions.
   - Identify and manage patients with oral surgical needs.
   - Identify and manage malocclusions.
   - Manage restorative procedures for single defective teeth, or to restore function in patients with partial or complete edentulism.
   - Treat patients with soft tissue lesions and oral manifestations of systemic diseases.
10. Demonstrate the ability to self-assess competency and the outcomes of care.

**Program Requirements**
The school offers a four-year, eight-semester, two-summer-term curriculum leading to the doctor of dental surgery (D.D.S.) degree. This curriculum is designed to prepare graduates in dentistry to deliver patient care with a scientific basis and a caring manner. As such, it provides a sound background in the biomedical, behavioral and clinical sciences with an emphasis on comprehensive oral health care.
Exposure to clinical dentistry in the first semester of the first year is a hallmark of this curriculum. The first year of dental school focuses on instruction in the biomedical sciences that provide a foundation for clinical studies. The first-year student also studies introductory courses in oral diagnosis and dental restorative techniques in a pre-clinical setting. Early clinical exposure is further emphasized through clinic-based courses in both the first and the second semesters. Acquisition of basic diagnostic skills and background knowledge is a goal of the first year of the curriculum.

Biomedical science courses extend into the second year; however, the major thrust of the second year is devoted to pre-clinical technique coursework of increasing complexity. In the preclinical laboratory courses, students continue learning the fundamental procedures of dentistry: operative dentistry, prosthodontics (fixed and removable), and endodontics. Clinically, students are introduced to the basic essential skills needed in preventive periodontics. Classroom lecture sessions are also conducted in each of these areas of dentistry along with didactic courses in periodontics, oral diagnosis, oral radiology, and oral surgery.

The primary emphasis of the third year of the curriculum is the clinical practice of dentistry. The general clinic is organized into subunits called teams. Each team includes an established set of faculty and staff. Patients are assigned to students for comprehensive care, from diagnosis and treatment planning through procedures necessary for successful case completion. While the emphasis of the third and fourth years of the dental curriculum is gaining clinical experience, students also attend advanced classes in periodontics, prosthodontics, oral surgery, orthodontics, pediatric dentistry, operative dentistry and oral diagnosis/oral medicine.

The fourth year involves extensive clinical practice. There are a few seminar sessions and formal courses (e.g., practice management), but the student's major responsibility is to perfect diagnostic, patient-management and technical-treatment skills and demonstrate competence in all the skills required by the faculty of the School of Dentistry.

An outline of the four-year curriculum by semester is given below.

**First Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 203 Cell Biology</td>
<td>3.0</td>
</tr>
<tr>
<td>BMS 9300 Human Gross Anatomy I</td>
<td>5.0</td>
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<tr>
<td>BMS 9308 Histology I</td>
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<tr>
<td>DENT 6306 Transitions: Introduction to the Profession and Practice</td>
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<tr>
<td>DENT 6310C Clinical Assisting</td>
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<tr>
<td>DENT 6316 Dental Morphology (Lec/Lab)</td>
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<tr>
<td>DENT 6328 Clinical Decision Making</td>
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<tr>
<td>LS-BIOC 304 Biochemistry &amp; Nutrition</td>
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<tr>
<td><strong>Total Hours</strong></td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BMS 9301 Human Gross Anatomy II</td>
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<tr>
<td>DENT 6305 Operative Dentistry I Lecture</td>
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<td>DENT 63051 Operative Dentistry I Laboratory</td>
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<tr>
<td>DENT 6314C Introduction to Oral Diagnosis</td>
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<tr>
<td>DENT 6317 Dental Occlusion</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>DENT 6350</td>
<td>Histopathology</td>
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<tr>
<td>LS-PHYS 401</td>
<td>Physiology Lecture</td>
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### Second Year

#### Fall Semester

<table>
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<tbody>
<tr>
<td>DENT 6410</td>
<td>Operative Dentistry II Lecture</td>
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<td>Operative Dentistry II Laboratory</td>
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</tr>
<tr>
<td>DENT 6412</td>
<td>Anesthesiology I Lecture</td>
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</tr>
<tr>
<td>DENT 6414</td>
<td>Pathology I Lecture</td>
<td>4.0</td>
</tr>
<tr>
<td>DENT 6416</td>
<td>Complete Removable Prosthodontics Lecture</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6416L</td>
<td>Complete Removable Prosthodontics I Laboratory</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT 6422</td>
<td>Fixed Prosthodontics I Lecture</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6422L</td>
<td>Fixed Prosthodontics I Laboratory</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT 6426</td>
<td>Oral Radiology</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT 6435</td>
<td>Endodontics I Lecture</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6436</td>
<td>Ortho:Growth and Development</td>
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<tr>
<td>LS-MCRB 4180</td>
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#### Spring Semester

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>DENT 6415</td>
<td>Pathology II</td>
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<tr>
<td>DENT 6417</td>
<td>Removable Partial Prosthodontics</td>
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</tr>
<tr>
<td>DENT 6420</td>
<td>Periodontics I</td>
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<tr>
<td>DENT 6423</td>
<td>Fixed Prosthodontics II Lecture</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6423L</td>
<td>Fixed Prosthodontics II Laboratory</td>
<td>2.0</td>
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<td>DENT 6431</td>
<td>Pediatric Dentistry I Lecture</td>
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<tr>
<td>DENT 6439</td>
<td>Medical Emergencies in the Dental Office</td>
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<tr>
<td>DENT 6440</td>
<td>Oral Surgery I</td>
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</tr>
<tr>
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</tr>
<tr>
<td>DENT 6524</td>
<td>Principles of Medicine and Physical Diagnosis</td>
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</tr>
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<td>Orthodontics I Lecture</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6526L</td>
<td>Orthodontics I Laboratory</td>
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</tr>
<tr>
<td>DENT 6556</td>
<td>Radiographic Interpretation</td>
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<tr>
<td>DENT 6564</td>
<td>Introduction to Pharmacology</td>
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<td>DENT 6595</td>
<td>Implant Dentistry</td>
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### Third Year

#### Summer Semester

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 6315C</td>
<td>Preventive Periodontics</td>
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<tr>
<td>DENT 6441C</td>
<td>Treatment Planning</td>
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</table>

UMKC 2012-13 Dentistry, School of
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 6501C</td>
<td>Intro to Comprehensive Patient Care</td>
<td>8.0</td>
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<tr>
<td>DENT 6537</td>
<td>Oral Oncology</td>
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<td>DENT 6566</td>
<td>Bridge Course</td>
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**Fall Semester**

<table>
<thead>
<tr>
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<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>DENT 6312</td>
<td>Dental Behavioral Science I</td>
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<td>DENT 6318</td>
<td>Dental Biomaterials Lecture</td>
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</tr>
<tr>
<td>DENT 6424</td>
<td>Oral Diagnosis And Oral Medicine</td>
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</tr>
<tr>
<td>DENT 6502</td>
<td>Grand Rounds I</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6515</td>
<td>Periodontics II</td>
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</tr>
<tr>
<td>DENT 6521</td>
<td>Oral Surgery II Lecture</td>
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<tr>
<td>DENT 6538</td>
<td>Orthodontics II</td>
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<tr>
<td>DENT 6460C</td>
<td>Review of Pre-Clinical Dentistry</td>
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<tr>
<td>DENT 6509C</td>
<td>Comprehensive Patient Care I</td>
<td>8.0</td>
</tr>
<tr>
<td>DENT 6591C</td>
<td>Professional Development I</td>
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</tr>
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<td><strong>Total Hours</strong></td>
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**Spring Semester**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 6411</td>
<td>Operative Dentistry III Lecture</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6504</td>
<td>Community and Professional Education</td>
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</tr>
<tr>
<td>DENT 6522</td>
<td>Oral Surgery III</td>
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</tr>
<tr>
<td>DENT 6527</td>
<td>Pharmacotherapeutics</td>
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<tr>
<td>DENT 6534</td>
<td>Advanced Prosthodontics</td>
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</tr>
<tr>
<td>DENT 6559</td>
<td>Diagnosis and Management of Orofacial Pain</td>
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</tr>
<tr>
<td>DENT 6602</td>
<td>Grand Rounds II</td>
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<tr>
<td>DENT 6630</td>
<td>Practice Management I</td>
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<td>DENT 6633</td>
<td>Introduction to Dental Public Health</td>
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<tr>
<td>DENT 6634</td>
<td>Extramural Clinical Rotations (ERC) I</td>
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<tr>
<td>DENT 6636</td>
<td>Oral Radiology Clinical</td>
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<td>DENT 6510C</td>
<td>Comprehensive Patient Care II</td>
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<td>DENT 6521C</td>
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<td>DENT 6531C</td>
<td>Oral Diagnosis Clinical I</td>
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<td>DENT 6542C</td>
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<td>DENT 6551CR</td>
<td>Oral Surgery Clinical</td>
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<tr>
<td>DENT 6562C</td>
<td>Removable Prosthodontics Clinical II</td>
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<tr>
<td>DENT 6592C</td>
<td>Professional Development II</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6606C</td>
<td>Pediatric Dentistry Clinical I</td>
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<tr>
<td><strong>Total Hours</strong></td>
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**Fourth Year**

**Summer Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 6650</td>
<td>Applied Ethics</td>
<td>0.5</td>
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</table>

UMKC 2012-13 Dentistry, School of
DENT 6593C  Professional Development III  1.0  
DENT 6609C  Comprehensive Patient Care III  8.0  
**Total Hours**  9.5  

### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 6429</td>
<td>Dental Behavioral Science II</td>
<td>1.0</td>
</tr>
<tr>
<td>DENT 6514</td>
<td>Pathology III Lecture</td>
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</tr>
<tr>
<td>DENT 6603</td>
<td>Grand Rounds III</td>
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<tr>
<td>DENT 6610</td>
<td>Anxiety and Pain Control</td>
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<tr>
<td>DENT 6613</td>
<td>Periodontal Treatment Planning</td>
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<tr>
<td>DENT 6614</td>
<td>Dentistry for the Special Patient</td>
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</tr>
<tr>
<td>DENT 6617</td>
<td>Pediatric Dentistry Seminar</td>
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<tr>
<td>DENT 6626</td>
<td>Clinical Treatment Planning</td>
<td>1.0</td>
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<tr>
<td>DENT 6635</td>
<td>Extramural Clinical Rotations (ERC) II</td>
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<td>DENT 6607C</td>
<td>Pediatric Dentistry Clinical II</td>
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<tr>
<td>DENT 6610C</td>
<td>Comprehensive Patient Care IV</td>
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<tr>
<td>DENT 6611C</td>
<td>Fixed Prosthodontics Clinical I</td>
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<tr>
<td>DENT 6532C</td>
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<td>DENT 6614C</td>
<td>Comprehensive Patient Care V</td>
<td>10.0</td>
</tr>
<tr>
<td>DENT 6691C</td>
<td>Professional Development IV</td>
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**Total Hours**  18.5

### Spring Semester

<table>
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<th>Course Title</th>
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</tr>
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<tbody>
<tr>
<td>DENT 6600</td>
<td>Review of Clinical Dentistry</td>
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<td>DENT 6604</td>
<td>Grand Rounds IV</td>
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<tr>
<td>DENT 6605</td>
<td>Review of Clinical Dentistry II</td>
<td>1.0</td>
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<tr>
<td>DENT 6618</td>
<td>Dental Jurisprudence and Ethics</td>
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</tr>
<tr>
<td>DENT 6631</td>
<td>Practice Management II</td>
<td>1.0</td>
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<tr>
<td>DENT 6601C</td>
<td>Endodontics Clinical</td>
<td>2.0</td>
</tr>
<tr>
<td>DENT 6608C</td>
<td>Pediatric Dentistry Clinical III</td>
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</tr>
<tr>
<td>DENT 6614C</td>
<td>Comprehensive Patient Care V</td>
<td>10.0</td>
</tr>
<tr>
<td>DENT 6621C</td>
<td>Periodontics Clinical II</td>
<td>1.0</td>
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<tr>
<td>DENT 6642C</td>
<td>Operative Dentistry Clinical IV</td>
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</tr>
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<td>DENT 6656C</td>
<td>Orthodontic Clinical I</td>
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<tr>
<td>DENT 6692C</td>
<td>Professional Development V</td>
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</tr>
</tbody>
</table>

**Total Hours**  22.0

Satisfactory completion of the program including:

1. Demonstration of competencies expected of a graduating student.
2. A passing grade on all sections of Part I and Part II of the National Board Dental Examinations.
3. A cumulative grade-point average of 2.5 or higher for the student's period as a dental student.
4. A demonstrated ability to meet the standards of professional conduct.
Advanced Education Programs

Chair, Advanced Education Committee:
Mary P. Walker, D.D.S., Ph.D. Associate Dean for Research and Graduate Programs

The School of Dentistry offers advanced education curricula leading to graduate certificates in each of five clinical dental specialty areas (endodontics, oral and maxillofacial surgery, orthodontics and dentofacial orthopedics, and periodontics), certificates in general dentistry, and master of science degrees in either oral biology or dental hygiene education. The School participates in the Interdisciplinary Ph.D. program through the Department of Oral Biology. Oral Biology's research focus areas are: Biomaterials/Bioengineering of Biological Tissues & Replacements, Mineralized Tissue Biology and Translational and Clinical Research.

- Application and Deadline Information
- Financial Assistance
- Enrollment Fees
- Academic Standards/Procedures: Advanced Education/Graduate Students
- Students in Cooperative Programs
- Dental Graduate Certificate Programs
  - Requirements and Procedure for Admission
  - Graduate Certificate: Advanced Education in General Dentistry
    - Program Description
    - Student Learning Outcomes
    - Program Requirements
  - Graduate Certificate: Endodontics
    - Program Description
    - Student Learning Outcomes
    - Program Requirements
  - Graduate Certificate: Oral and Maxillofacial Surgery
    - Program Description
    - Student Learning Outcomes
    - Program Requirements
  - Graduate Certificate: Orthodontics and Dentofacial Orthopedics
    - Program Description
    - Student Learning Outcomes
    - Program Requirements
  - Graduate Certificate: Periodontics
    - Program Description
    - Student Learning Outcomes
    - Program Requirements
Application Information
All applicants to the advanced education certificate programs (advanced education in general dentistry, endodontics, oral and maxillofacial surgery, orthodontics and dentofacial orthopedics, and periodontics) require the Postdoctoral Application Support Services (PASS) application available at www.adea.org. All sections of the PASS application should be completed fully. Official dental school transcripts and official national board scores should be submitted directly to PASS. Applicants applying to the Orthodontics program should additionally submit official GRE scores. Be aware that approximately three weeks are required by the service to process PASS applications and deliver them to the designated programs. The length of this processing period should be considered by the candidate in order to meet relevant application deadlines. An applicant copy of the PASS application should not be sent to UMKC.

All applicants are required to submit the Institutional Evaluation AND Personal Potential Index (PPI) as part of their completed PASS application. A minimum of three professional evaluators (dental faculty) are required to submit evaluations for the PPI.

Additional information, as identified below, must be submitted directly to the UMKC School of Dentistry, Office of Student Programs, 650 East 25th Street, Kansas City, MO 64108.

- Official transcripts from degree granting undergraduate and graduate institution(s). Additionally, if a large number of pre-dental prerequisites were taken outside the degree granting institution those transcripts should be submitted too. (Applicants do not need to submit dental school transcripts as they are provided to us through PASS).

- A copy of permanent resident card (if applicable).

- A copy of dental license (if applicable).

- UMKC application and UMKC application fee. Domestic student fee of $35 when applying online (http://www.umkc.edu/apply/grad.asp); $45 when submitting the paper application – check payable to ‘UMKC.’ International student application fee of $50 (www.umkc.edu/isao) (Applicants who have enrolled and completed coursework as a degree-seeking student at UMKC are exempt from paying the application fee a second time, but still must complete a new UMKC application).

International applicants should additionally submit the following
- TOEFL scores (minimum of 550 on the paper test, 213 on the computer based test, 79 on internet based test) or a demonstrated proficiency in the English language (if English is not the primary language of the applicant).

- Financial statement (guarantee of full financial support or of sufficient financial resources for the entire cost of the program, including living expenses).

International applicants must have a U.S. or Canadian D.D.S. or D.M.D. from an accredited CDA or CDAC program to be considered for advanced education programs, except the programs in Oral Biology.
www.adea.org). There are two phases of the MATCH process, each with its deadline date for receipt of Rank Order List forms from applicants. The Phase I deadline (typically toward the end of November each year) is for applicants to the orthodontics and dentofacial orthopedics program. The Phase II deadline (typically in the middle of January annually) is for those applying for admission to the oral and maxillofacial surgery program. The graduate certificate programs in oral and maxillofacial surgery AND orthodontics and dentofacial orthopedics participate in the National Matching Services (MATCH) process. Candidates to these programs must also register for this service within the ADEA PASS applicant portal.

General admissions questions concerning advanced education programs should be directed to the Office of Student Programs at (816) 235-6322. However, specific questions regarding any advanced education program should be directed to the pertinent program director. Graduate program directors along with their telephone numbers are identified in a subsequent section.

Application Deadline:
Application deadline dates for graduate dental certificate programs are as follows:

<table>
<thead>
<tr>
<th>Program</th>
<th>Deadline</th>
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</thead>
<tbody>
<tr>
<td>Advanced Education in General Dentistry</td>
<td>October 3</td>
</tr>
<tr>
<td>Endodontics</td>
<td>August 15</td>
</tr>
<tr>
<td>Oral and Maxillofacial Surgery</td>
<td>October 3</td>
</tr>
<tr>
<td>Orthodontics</td>
<td>September 1</td>
</tr>
<tr>
<td>Periodontics</td>
<td>August 15</td>
</tr>
</tbody>
</table>

The deadline date for receipt of applications at the school is one year before the anticipated enrollment in program.

Financial Assistance

Enrollment Fees
Below are outlined the various enrollment fees per term for all advanced education programs at the School of Dentistry except those for the M.S. in oral biology, the Interdisciplinary Ph.D. and the M.S. in dental hygiene education programs (see subsequent part of this catalog section). These fees assume enrollment in three or more credit hours for the summer session, and six or more credit hours for each of the fall and spring semesters. Most programs require fewer credit hours than those per term. Note: Indicated fees are correct at time of printing. However, fees are subject to change without notice.
### Summer Term

<table>
<thead>
<tr>
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### Fall/Spring Semester (Each)

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*Endodontic, Orthodontic & Periodontic Programs*

### Students in Cooperative Programs
Students enrolled in programs (e.g., Pediatric Dentistry, Oral and Maxillofacial Surgery) operated jointly by the School of Dentistry and other institutions, such as Children's Mercy Hospital and Truman Medical Center, must remain in good standing with both organizations cooperating in the program. A student who is dismissed by either of the cooperating institutions is ineligible to continue in the program.

### Dental Graduate Certificate Programs
A graduate certificate program is offered in each of the following areas:
- Advanced Education in General Dentistry
- Endodontics
- Oral and Maxillofacial Surgery
- Orthodontics and Dentofacial Orthopedics
- Periodontics

### General Nature of Programs
Each certificate program curriculum is designed to prepare the student for specialty practice and to help the student meet the educational training requirements for examination by the appropriate American dental specialty board. All programs begin with the summer term (the first week of July) except for graduate dental hygiene education, which begins with the fall semester. Programs vary in length from 12 to 72 months.

### Requirements and Procedure for Admission
Admission to a graduate dental certificate program is competitive. Primary focus is on the applicant's academic record while in dental school, including national board scores. Emphasis is also placed on information gathered from PASS application materials and professional evaluations (such as quality of professional practice experience, continuing education experience, research activities, leadership and involvement and participation in professional societies and community service). Another fundamental
source of information is supplied by a personal on-site interview that is required of most programs and is by invitation.

Applicants to a graduate dental certificate program must hold a D.D.S. degree or equivalent from a program accredited either by the Commission on Dental Accreditation (CDA) or the Canadian Dental Accrediting Commission (CDAC).

**Admission**
The Advanced Education Committee (AEC) serves as the admission review board for each of the graduate dental certificate programs. Each program has its own admission review board. At a minimum, the admission review board consists of the respective program director and at least two other full-time faculty members.

Each program's admission review board submits its recommendations for acceptance to the AEC for consideration. Recommendations for acceptance include those identified as prime candidates (equal in number to the number of available residencies in the program) and those who serve as "alternates." Acceptance or denial of each recommended candidate is made by the AEC.

**Program Description: Advanced Education in General Dentistry**
Director: John W. Thurmond, D.D.S., M.S., Diplomate, American Board of General Dentistry
The advanced education in general dentistry residency program is a 12-month Council on Dental Accreditation (CODA) accredited program that begins in July of each year for eight residents. The program is designed to refine and advance knowledge, skills and clinical competency and proficiency in the practice of comprehensive general dentistry. The program bridges the gap between dental school and dental practice. Clinical instruction is offered in all of the clinical disciplines. The didactic component provides postgraduate training in the basic and behavioral sciences, as well as the clinical sciences and practice management. Upon completion of this program a certificate in “Advanced General Dentistry” will be awarded.
An optional second year residency is available for two of our current residents. The emphases during this year of the program are in advanced restorative and implant dentistry.

**Eligibility**
An applicant for this program must be a citizen of the United States or a foreign national having a visa permitting permanent residence in the United States. Applicants must also submit evidence of graduation from a school of dentistry accredited by the Commission on Dental Accreditation or the Canadian Dental Accrediting Commission, or verification from the dean of an accredited dental school that the applicant will graduate during the current academic year.

**Tuition and Fees**
Estimated school tuition can be obtained at the Advanced Education Enrollment Fees section of this catalog. If selected for the program there is a $500 nonrefundable acceptance fee which must be paid within two weeks of the time of acceptance of the position. More information will be provided to the applicant once he/she is accepted into the program.
Financial Assistance
Up-to-date additional information on financial assistance can be obtained at http://www.sfa.umkc.edu/

Stipend
No stipend is available. Residents receive income generated from their clinical practice of general dentistry. The income paid is approximately 33 percent of the net fees collected for clinical treatment they provide in the program. Net collected clinical fees are defined as gross clinic fees collected, less scheduled laboratory fees incurred as a part of the treatment procedures.

Applications
Application to this program is through the Postdoctoral Application Support Services (PASS). Use the link http://dentistry.umkc.edu/Future_Students/AdvancedEd.shtml for greater detail on both. The deadline for receipt of application at the school is Oct. 1 of the year prior to planned enrollment.

Interview
Competitive applicants will be invited to Kansas City for an interview with the program director and other selected faculty and staff. If invited, the interview is a required part of the application process and funding is the responsibility of the applicant.

Point of Contact
To request further information, please contact either the Office of Student Programs at (816) 235-2080 or dds@umkc.edu; or the program director, Dr. John W. Thurmond at (816) 235-2164 or thurmondj@umkc.edu.

Program Description: Endodontics
Director: James C. Kulild, D.D.S., M.S., Diplomate, American Board of Endodontics; Fellow, American College of Dentists; Fellow, International College of Dentists; Fellow, Pierre Fauchard Academy; President, American Association of Endodontists

Program Overview
The endodontic postgraduate program is designed to prepare a dentist for a career in clinical endodontics, research and teaching. The overall goal is to educate dentists to become competent clinical endodontists who will serve the public and the profession at a high level of excellence. It stresses the importance of knowledge and skills in the diagnosis, prevention, and treatment of diseases associated with the dental pulp and related periapical tissues. Didactic and clinical training is also conducted in other related areas within the scope of practice of the field of endodontics as established by the Endodontic Standards of the Commission on Dental Accreditation. The correlation of basic sciences and clinical sciences is an integral part of the program. A research project is required and comprehensive examinations must be successfully
completed. The program is also designed to prepare the graduate endodontist to challenge the requirements for certification as a Diplomate by the American Board of Endodontics. Individuals who successfully complete this advanced education program will be awarded a Certificate in Endodontics.

Accreditation
The program in endodontics is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "approval without reporting requirements". The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611.

Eligibility
An applicant for this program must be a citizen of the United States or permanent resident in the United States. Applicants must also submit evidence of graduation from a school of dentistry accredited by the American Dental Association or the Canadian Dental Association. International students must additional apply and submit additional credentials through the International Student Affairs Office http://www.umkc.edu/isao/

Program Duration
The 24-month program covers six continuous semesters and begins on July 1.

Number of Residents
There are generally two first-year and two second-year residents.

General Applicant Information
Application to this program is through the ADEA Postdoctoral Application Support Services (PASS). The deadline for receipt of application at the school is August 15th of the year prior to planned enrollment. Detailed application information is available at http://dentistry.umkc.edu/Future_Students/AdvancedEd.shtml

Graduate Medical Education (GME) Stipends
Currently, residents are eligible for GME stipends of approximately $21,000 per year. This is a federal, not School of Dentistry, program and is subject to current federal guidelines.

Income from Endodontic Program Practice
Residents will also be paid approximately 33 percent of the net fees collected for clinical treatment they provide in the program. Net collected clinical fees are defined as gross clinic fees collected, less scheduled laboratory fees incurred as a part of the treatment procedures, and/or less any fee waivers granted. Generally, this amounts to between $20,000-$30,000 additional income per year. Residents are not allowed to practice outside of the endodontic program.

Tuition and Fees
Estimated school tuition costs can be found in the Fees section of this catalog. If selected for the program, there is a $2,000 nonrefundable acceptance fee which must be paid within two days of the time of acceptance of the position. More information will be provided to the applicant once he/she is accepted into the program.
**Instruments and Equipment**
Residents will be required to lease their dental instruments through the school and purchase some other instruments and equipment. The school employs a centralized sterilization program for the lease instruments. Additionally, each resident is required to purchase an endodontic operating microscope head with beam splitter and attachment to accommodate a minimum 4 mega pixel digital camera which must also be purchased. A list of other required instruments and textbooks will be provided when an applicant is selected to attend the program. Estimated cost for purchases for the 24-month program are approximately $20,000. All of these purchases go with the resident when he/she graduates from the program. Estimated lease expenses are approximately $8,800 for the 24-month program, $2,200 per each fall and spring semesters. Currently, there are no charges for leased instruments for the summer semesters. Many of the costs associated with this Advanced Education Program may be tax deductible expenses since they produce earned income for the resident. Consult your tax adviser.

**Postgraduate Endodontic Clinic**
The postgraduate endodontic clinic is a true state-of-the-art facility made possible by the generous donations of Mrs. Virginia Stowers, Dr. Ben Johnson, and other benefactors. All rooms are equipped with resident-purchased dental operating microscopes. Each room has its own x-ray head, Adec track light system, and ASI dental unit carts complete with air-driven high and low speed fiber optic handpieces, two electric handpieces, two ultrasonics, dual micro irrigators, micro air syringes, and curing light. The program is linked into the all-electronic paperless patient record management system which also integrates the digital x-ray sensors available in each operatory. Please go to the clinic web page at for a 360 degree photo tour. Also please see http://dentistry.umkc.edu/Patient_Information/stowers.shtml for more information about faculty, residents and staff.

**Study Areas**
Residents have excellent dedicated office space with high-speed computer and printer support connected to a high-speed LAN. The program also has a dedicated seminar room for literature reviews, case presentation, lectures, etc.

**Financial Assistance**
Up-to-date additional information on financial assistance can be found in the School of Dentistry portion of the Financial Aid Charts at http://www.sfa.umkc.edu

**Interview**
Selected applicants will be invited to Kansas City for an interview with the program director and other selected faculty and staff. If invited, the interview is a required part of the application process, and travel expenses are the responsibility of the applicant.

**Point of Contact**
To request further information, please contact either the Office of Student Programs at (816) 235-2080 or dds@umkc.edu or the program director, Dr. James C. Kulild, at (816) 235-2479 or kulildj@umkc.edu
Program Description: Orthodontics and Dentofacial Orthopedics

Director: Jeff Nickel, D.M.D., MSc, Ph.D.

Faculty:

Program Overview
The advanced education program in orthodontics and dentofacial orthopedics has existed since 1946. Approximately 350 UMKC orthodontists have graduated from the UMKC program and are located in many states and some foreign countries.

This is a full-time, 30 month program that begins in July. It is designed to prepare the student for community practice of orthodontics and dentofacial orthopedics. Curriculum emphasis is placed on the edgewise technique and on interceptive and functional treatment. Management of craniofacial anomalies is taught didactically and clinically in association with the craniofacial team at Children's Mercy Hospital. Objective inquiry and statistical validation are emphasized in all aspects of this program. Completion of an original research project and paper is required. The computerized clinic facility is a working-research model that simulates the private practice environment. Courses, clinics, and dedicated research time are organized to facilitate the completion of an M.S. or Ph.D. degree in oral biology. A separate application is required for the M.S. or Ph.D. program.

Application and Acceptance
Applications are considered from the following groups:

Fourth-year dental students from American Dental Association (ADA) or Canadian Dental Association (CDA) Accredited schools who are in the top 50 percent of their graduating class. Graduates of ADA or CDA accredited dental schools who ranked in the top 50 percent of their graduating classes and have satisfactorily completed a general practice residency or other dental specialty program prior to application.

Graduates of a School of Dentistry who ranked in the top 50 percent of their class and has been in general practices.

Selection of candidates is a twofold process. First, candidates are stratified on the basis of academic and professional performance: national board scores, GRE scores, class standing, other specialty program, practice experience, leadership roles in organized dental groups, dental school teaching, research experience and recommendations are considered.
Secondly, applicants meeting screening criteria are invited for interviews. All interviews are conducted at the School of Dentistry on the same day and all invited candidates must attend this session to be eligible for final selection into the class. If offered a position in a class, this offer, like all offers from the University, is contingent upon a successful background screening. In order to begin the background screening, you must complete a Disclosure form and return it to Human Resources within two business days. Three residents are accepted into this program annually.

Application for admission **MUST** be through the ADEA PASS program and completed on or before September 1st of the year prior to planned enrollment. For more information, check the website http://dentistry.umkc.edu/patient_information/orthdentorthopedics.shtml or the Information Bulletin. Each will provide information on the Graduate orthodontic Program.

**Stipend**
Thirty-three percent of clinical fee collections (as defined in the Financial Assistance section).*
*Available to eligible program residents (i.e., those who have earned a D.D.S./D.M.D. degree from an American Dental Association- or a Canadian Dental Association-accredited program).

**Tuition and Fees**
Estimated tuition costs may be found in the fees section of this catalog. There are additional fees for books, laptop computer and required meeting attendance associated with this program.

**Instruments**
Residents are required to pay an "instrument usage" fee to the school. All instruments are provided and are maintained by the Central Sterilization program of the school.

**Financial Assistance**
Up-to-date information on additional financial assistance may be found in the school financial aids charts at http://www.sfa.umkc.edu/.
Program Description: Oral and Maxillofacial Surgery

Director: Brett L. Ferguson, D.D.S., Diplomate, American Board of Oral and Maxillofacial Surgery (ABOMS)


Stipend

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<th>Year</th>
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<th>Third Year</th>
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This six-year program, which begins in July, is open to applicants who have a doctoral degree in dentistry from an ADA-accredited dental school, and who are interested in completing both a medical degree and certificate of residency training in oral and maxillofacial surgery.

The program divides the training between the oral and maxillofacial surgery residency program and the curriculum of the School of Medicine. This program provides in-depth coverage of orthognathic surgery, reconstructive surgery, implant surgery, temporomandibular joint surgery, trauma, dento-alveolar surgery and anesthesia, as well as all required basic science and clinical medicine courses for the doctor of medicine degree. A thesis is not required; however, publication in peer-reviewed journals is a requirement of the training program.

An interdisciplinary Ph.D. program is offered through the School of Graduate Studies as an elective for qualified and interested program residents. This will require additional years of study and clinical experience, and will also require a thesis. Separate application to this program will be made after beginning the residency.

Openings are limited to two individuals each year, and new residents must be prepared to begin their training on July 1. Applicants accepted into this program must have the necessary training to obtain a permanent dental license in the state of Missouri prior to the start of their training. Residents are required to enroll in both the UMKC School of Dentistry and UMKC School of Medicine, depending on course and residency requirements being fulfilled in a given term. Appropriate fees from both schools are applicable.

To be considered for admission to the UMKC School of Medicine, one must be a United States citizen or be a permanent resident of the United States; if the applicant holds a permanent resident visa, a copy should be included in your application materials.

Interested applicants must apply through the Postdoctoral Application Support Services (PASS); this program also participates in the National Matching Services (MATCH). Use the link
http://dentistry.umkc.edu/Future_Students/AdvancedEd.shtml for more details regarding additional information to be supplied by the applicant.

Deadline for receipt of application at the school is October 1 of the year prior to anticipated enrollment. A by-invitation interview is a required part of the application process. Please note that score results of the MCAT examination are not a requirement of this program. Questions about this program may be answered by contacting the program director's office at (816) 404-4356.
Program Description: Periodontics

Director: Simon R. MacNeill, B.D.S., D.D.S., Diplomate, American Board of Periodontology

Faculty:
John W. Rapley, D.D.S., M.S., Department Chair, Diplomate, American Board of Periodontology; Nancy Newhouse, D.D.S., M.S., Diplomate, American Board of Periodontology; Mark Edwards, D.D.S., Diplomate, American Board of Periodontology; David Thein, D.D.S., M.S.; Keerthana Satheesh, B.D.S., D.D.S, M.S., Diplomate, American Board of Periodontology; Charles M. Cobb, D.D.S., M.S., Ph.D., Diplomate, American Board of Periodontology; David May, D.D.S., Diplomate, American Board of Periodontology; Mabel Salas, D.D.S., M.S., Diplomate, American Board of Periodontology

Program Overview
The periodontic postgraduate program is designed to prepare a dentist for a career in clinical periodontics, research and teaching. It enables the resident to acquire a depth of understanding in oral biology; to become acquainted with the problems in the biology and pathology of oral tissues, and to adequately treat these problems with the most current knowledge and techniques. Program students will be encouraged to use interdisciplinary approaches in the solution of research and clinical problems. The program is designed to provide for the profession and the community, competent bio-clinicians who will become key professionals in clinical practice, research, and teaching. Didactic and clinical training will also be conducted in other related areas within the scope of practice of the field of periodontics as established by the Periodontic Standards of the Council on Dental Accreditation. The correlation of basic sciences and clinical sciences is an integral part of the program. A research project is required and comprehensive examinations must be successfully completed. Original research leading to the Master of Science is possible. Admission into the M.S. program requires a separate application, and the student will apply for admission following successful enrollment into the periodontic program. Meeting all eligibility criteria of the M.S. program is necessary for acceptance into the periodontics program. The program is also designed to prepare the graduate periodontist to challenge the requirements for certification as a diplomate by the American Board of Periodontology. Individuals who successfully complete this advanced education program will be awarded a Certificate in Periodontics.

Eligibility
An applicant for this program must be a citizen of the United States or a foreign national having a visa permitting permanent residence in the United States. Applicants must also submit evidence of graduation from a school of dentistry accredited by the Commission on Dental Accreditation or the Canadian Dental Accrediting Commission, or verification from the dean of an accredited dental school that the applicant will graduate during the current academic year.

Program Duration
The 30-month program covers eight continuous semesters and begins on July 1.

Number of Residents
Two students are accepted into the program each year.
**General Applicant Information**
Application to this program is through the ADEA Postdoctoral Application Support Services (PASS). The deadline for receipt of application at the school is **August 15th** of the year prior to planned enrollment.
Selection is based on academic standing in dental school (grade-point average, class standing and National Board scores) and experience (years in practice, teaching or research, advanced training or degrees, publications, activity in organized dentistry and participation in continuing education). All applicants are required to submit the Institutional Evaluation AND Personal Potential Index (PPI) as part of their completed PASS application. A minimum of three professional evaluators (dental faculty) are required to submit evaluations for the PPI. Detailed application information is available at [http://dentistry.umkc.edu/Future_Students/index.shtml](http://dentistry.umkc.edu/Future_Students/index.shtml)

**Stipend**
No stipend is available.

**Income from Periodontal Program Practice**
Residents will be paid approximately 33 percent of the net fees collected for clinical treatment they provide in the program. Net collected clinical fees are defined as gross clinic fees collected, less scheduled laboratory fees incurred as a part of the treatment procedures, and/or less any fee waivers granted (see also Financial Assistance section).

**Tuition and Fees**
Estimated school tuition can be obtained at the Advanced Education Enrollment Fees section of this catalog. If selected for the program there is a $500 nonrefundable acceptance fee which must be paid within two days of the time of acceptance of the position. More information will be provided to the applicant once he/she is accepted into the program.

**Instruments and Equipment**
Residents are required to lease their dental instruments through the Infection Control Instrument Management System of the School, and will also be required to purchase some additional equipment including a clinical camera.

**Financial Assistance**
Up-to-date additional information on financial assistance can be obtained at [http://www.sfa.umkc.edu/](http://www.sfa.umkc.edu/).

**Interview**
Competitive applicants will be invited to Kansas City for an interview with the program director and other selected faculty and staff. If invited, the interview is a required part of the application process and funding is the responsibility of the applicant.
Accreditation
The program in periodontics is fully accredited by the Commission on Dental Accreditation. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-2500 or at 211 East Chicago Avenue, Chicago, IL 60611. Their website is: http://www.ada.org.

Study Areas
Residents have a dedicated office space with computer and printer support connected to a high-speed LAN. The program also has a dedicated seminar room for literature reviews, case presentation, lectures, etc.

Point of Contact
To request further information, contact the Office of Student Programs at (816) 235-2080 or dds@umkc.edu; or the program director, Dr. Simon R. MacNeill, at (816) 235-2119 or macneills@umkc.edu.
Graduate Certificate in Advanced Education in General Dentistry

Student Learning Outcomes
Residents on completion of the AEGD program will have the knowledge and experience to provide comprehensive multidisciplinary oral health care at a level of skill and competency beyond that achieved in their pre-doctoral training. It is expected that they will be able to provide this care to a broad and diverse patient population which includes the medically compromised and those with special needs. The objectives of the didactic and clinical experiences is to broaden and strengthen the scope and level of residents competencies and proficiencies in the practice of dentistry. Patients are treated in a comprehensive manner with clinical emphasis on:

- Diagnosis and treatment planning of complex and multidisciplinary cares.
- Management of oral facial pain including the TMJ patient.
- The importance of occlusion in all aspects of dentistry.
- Contemporary endodontics and periodontics.
- Oral surgery including surgical principles and techniques for dental implants.
- Current esthetic dentistry techniques.
- Advanced restorative/prosthodontic treatment including dental implants.

Educational formats used are: formal courses, lectures, seminars, literature reviews, assigned readings, hands-on courses, case presentation, attendance at continuing education, guest speakers, treatment planning conferences, clinical demonstrations and chairside clinical teaching.

Requirements for a Certificate in Advanced Education in General Dentistry (AEGD)
Successful completion includes:

1. Maintaining a 3.0 GPA for all assigned didactic and clinical course work
2. Maintenance of all required clinical documentation
3. Maintenance of a program portfolio as designed by the program director
4. Progressively increase resident’s scope of practice and increase clinical competencies beyond that of a graduate of a four year D.D.S. (D.M.D.) program
5. Provide dental care to a diverse population in an ethical, competent, compassionate and professional manner
6. Achieve established program “goals and objectives” established by the Council of Dental Accreditation (CODA) of the American Dental Association
7. Coordinate and participate in community service projects
8. Comply with all policies established by UMKC, School of Dentistry and AEGD program director
Graduate Certificate in Endodontics

Student Learning Outcomes
The following listing of skills required by the Standards for Advanced Specialty Education Programs in Endodontics are assessed through seminars, examinations, one-on-one discussions, papers, presentations, laboratory exercises, mock board exercises, and clinical care on patients. The graduate will demonstrate applied knowledge and clinical skills in the following areas:

1. Anatomy of soft and hard tissues of the head and neck with particular emphasis on the teeth and their supporting structures.
2. Embryology, histology and physiology of the pulpal/periradicular complex.
3. Microbial ecology of the oral flora and the microbiologic aspects of caries, and pulpal and periradicular diseases.
4. Infectious and immunologic processes in oral health and disease.
5. Pathophysiology as it relates to diseases of the pulpal/periradicular complex and orofacial pain.
6. Mechanisms of inflammation and wound healing with emphasis on the pulpal/periradicular/periodontal complex.
7. Oral medicine and pathology as they relate to the differential diagnosis and management of clinical conditions that may require endodontic treatment.
8. Pharmacotherapeutic agents used in the management of systemic diseases that may influence the management of patients requiring endodontic treatment.
10. Principles of biostatistics, research design, research methodology, scientific writing, and critical evaluation of the literature.
11. Biomaterial science as it relates to endodontics.
12. Collect, organize, analyze and interpret data from the medical and dental histories and clinical evaluation to determine their relationship to the patient's endodontic treatment.
13. Perform tests and clinical examinations and interpret the significance of the data in the differential diagnosis of clinical conditions arising from injury to the pathosis of pulp and periradicular tissues.
14. Expose, process and interpret radiographs and/or take and interpret digital images.
15. Establish differential interpretations of lesions and normal anatomic structures through radiographs or digital images.
16. Formulate a diagnosis, prognosis, and treatment plan for conditions that require endodontic treatment in support of the total oral health of the patient, requesting information/consultation from other healthcare professionals as needed.
17. Provide appropriate emergency treatment to relieve pain and resolve infections of endodontic origin.
18. Recognize and manage, or prevent, endodontic pain and associated anxiety using physical, chemical and psychological modalities.
20. Retreat endodontically-treated teeth using both non-surgical and surgical techniques.
21. Evaluate the results of endodontic treatment and determine whether additional evaluation/treatment is required.
22. Provide space for intraradicular restorations and cores in endodontically treated teeth.
23. Communicate to patients the nature of their endodontic conditions and the value of treatment to their overall oral health.
24. Communicate with other health care professionals, interpreting their assessments and integrating this information into the treatment of the patient.
25. Provide vital pulp therapy.
27. Evaluate, diagnose and manage traumatic injuries to teeth and their supporting structures.
28. Provide endodontic treatment for the medically compromised patient.
30. Diagnose and treat periodontal disease and defects in conjunction with the treatment of the specific tooth undergoing endodontic therapy; treatment should be provided in consultation with the individuals who will assume the responsibility for the completion or supervision of any additional periodontal maintenance or treatment.
31. Place intraradicular restorations and cores in endodontically treated teeth; when the patient is referred, this treatment is accomplished in consultation with the restorative dentist.
32. Perform non-surgical and surgical endodontic procedures using microscopy.
33. Perform intracoronal bleaching procedures.
34. The history of endodontics, teaching methodology, ethics.
35. Endodontic endosseous implants, osseointegrated implants and techniques for placement of implants, and orthodontic extrusion procedures.

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<td>Implantology</td>
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<td>Oral Physiology</td>
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<td>Pharmacology</td>
<td>BIO-SCI 5759</td>
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</tr>
<tr>
<td>Dental Biomaterials</td>
<td>BIO-SCI 5739</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Satisfactory completion of all clinical and basic science core courses as outlined for the endodontic curriculum.
2. Satisfactory completion of all endodontic courses and seminars.
3. Achievement of clinical competency in endodontics.
4. Grades of at least "B" in all basic and clinical sciences and endodontic courses. Courses that are audited will require 100% attendance and residents will be tested on course content during the annual endodontic oral and written examinations. Failure by any resident to meet the 100% attendance requirement for any audited courses will result in written and/or oral examinations in those courses at the discretion of the Program Director. Residents are entitled to due process in accordance with guidelines contained in the Student Handbook on Academic and Other Policies.
5. The goal for each resident is to complete at least 200 clinical endodontic cases. These cases will include, but not be limited to, the following: nonsurgical, surgical, retreatment, vital pulp treatment, apexification, trauma, medically compromised, endo-perio, restoration of endodontically treated teeth, and bleaching. The cases treated should include as many and as varied types of cases, in order to give the broadest exposure and experience necessary to graduate as the best qualified endodontist. A list of all cases will be maintained by the resident. The completed cases will be reviewed on a monthly and quarterly basis by the Program Director. An annual report of all cases is due July 1.
6. A series of 24 completely documented cases, representing various types of treatment accomplished by the student. These cases will submitted in a written format using the format of the American Board of Endodontics. These cases will be placed in a binder suitable for placement in the Endodontic Library, complete with slides, photomicrographs of the biopsy, and all pertinent radiographs (including recalls). These cases are due as established on the resident schedule.
7. Documented research. A suitable project approved by the Research Advisors and the Program Director, conduct of the research, collection of data, analysis of results, and preparation of a manuscript suitable for submission to a refereed journal must be completed before the conclusion of the program. If, for whatever reason, a waiver is granted by the Program Director for an extension of the submission deadline date, the resident may forfeit the right of first-authorship. A request to submit the research findings at the oral research presentations at the Annual Session of the AAE is required.
8. Attendance at all scheduled classes, seminars, clinics, and meetings is mandatory. Attendance is also required for all consultant lecturers established by the Program Director or the person he has delegated this responsibility. This may involve an occasional evening or weekend event. Absences will not be acceptable and will be reflected in a lowering of course grades on the semester evaluation report, and could result in additional assignments such as written literature review reports.
Graduate Certificate in Oral and Maxillofacial Surgery

Student Learning Outcomes
Oral and Maxillofacial Surgery is the specialty of dentistry which includes the diagnosis, surgical and adjunctive treatment of diseases, injuries and defects involving both the functional and aesthetic aspects of the hard and soft tissues of the oral and maxillofacial regions. The following learning outcomes have been developed and adopted by the Commission on Dental Accreditation and the faculty in oral and maxillofacial surgery at the University of Missouri – Kansas City Schools of Dentistry and Medicine. The goals, skills, and knowledge every graduate must demonstrate to qualify for graduation are assessed through the classroom, the outpatient clinic, hospital/surgicenter operating rooms, mock Board exercises, seminars, presentations, and one-on-one discussions. Hospitals included are Children's Mercy Hospital, St. Luke's Hospital of Kansas City, Truman Medical Centers Hospital Hill and Lakewood.

The graduate in oral and maxillofacial surgery will demonstrate applied knowledge and clinical skills in the following areas:

2. Minimum duration of 72 months of full-time study with a minimum of 30 months devoted to clinical oral and maxillofacial surgery.
3. Six months of the senior year with responsibilities of Chief Resident.
4. Present patients in a pre- and post-operative format.
5. Maintenance of a surgical log.
6. Coursework and training as requirements for the medical degree at the University of Missouri – Kansas City School of Medicine, to include a general surgery residency preliminary year within the integrated MD/oral and maxillofacial surgery training program.
7. Minimum duration of four months of anesthesia to include mandated daily attendance, daily lectures, on-call participation, and an intended workload of approximately 250 general anesthesia cases.
8. Medical service will include a minimum of two months of clinical medical experience and will be at the medical student/resident intern level or higher and may include rotations on medical specialty services.
9. Surgical service will include a minimum of four months of general surgery experience and will be at the surgery student/resident with a commensurate level of responsibility (operate at a PGY-1 level or higher and is on the regular on-call schedule).
10. Two additional months of clinical surgical or medical education will be assigned.
11. Weekly departmental seminars and conferences to provide instruction in the broad scope of oral and maxillofacial surgery and related sciences and will include retrospective audits, clinical pathological conferences, tumor conferences, and guest lectures. The resident will prepare and present departmental conferences.
12. Instruction in the basic biomedical sciences will include anatomy (including growth and development), physiology, pharmacology, microbiology, and pathology. This instruction will be met through the completion of the requirements for the MD as well as the certificate in oral and maxillofacial surgery. Anatomy lectures will include surgical approaches to the maxillofacial region and graft donor sites.
13. A physical diagnosis program will be started upon entrance into the residency. This will include a structure, didactic, and clinical course in physical diagnosis and will be provided by faculty privileged to perform history/physical exams. Competency in physical diagnosis will be documented and will occur in the first year of the program.

14. Clinical oral and maxillofacial surgery will include a complete, progressively graduated sequence of outpatient, inpatient, and emergency room experiences. Exposure to major and minor surgical principles will be integrated throughout the duration of the program. Outpatient oral and maxillofacial surgery experiences will include the management of traumatic injuries and pathologic conditions, dentoalveolar surgery, the placement of implant devices, augmentations, and other hard and soft tissue surgery including mucogingival surgery.

15. Ambulatory general anesthesia and deep sedation will include both the general anesthesia rotation of four months and the outpatient surgery experience which includes general anesthesia/deep sedation on adult and pediatric patients. This includes competence in managing the airway. In addition, all residents will obtain training and experience in all aspects of parenteral and inhalation sedation techniques. Inpatient surgical experience will include admission and management of patients.

16. Major surgery will include surgery on adults and children to include trauma, pathology, orthognathic surgery, reconstructive, and aesthetic surgery. In the trauma category, surgical management of mandibular fractures, maxillary fractures, zygomaticomaxillary fractures, nasal fractures, naso frontal orbital ethmoidal fractures, and repair of facial, oral, soft tissue injuries, and injuries to specialized structures. Pathology will include treatment of sinus procedures, TMJ pathology, cystectomy of bone and soft tissue, sialolithotomy, sialoadenectomy, management of head/neck infections, fifth-nerve surgery, and surgical management of benign and malignant neoplasms. Orthognathic surgery will include correction of functional and aesthetic orofacial and craniofacial deformities of the mandible, maxilla, zygoma, and other facial bones. Reconstructive and aesthetic surgery will include bone grafting and soft tissue grafting and insertion of implants. This includes competence in harvesting of bone and soft tissue grafts. Reconstructive surgery will also include augmentation procedures, TMJ reconstruction, insertion of craniofacial implants, and management of continuity defects. Dental implant training will include didactic and clinical experience in the management of implant placement, diagnosis, treatment planning, site preparation, grafting procedures, implant placement, and management of complications. Aesthetic surgery will include rhinoplasty, scar revision, blepharoplasty, genioplasty, and lipectomy.

17. Medical school curriculum will include formal courses in biostatistics, human gross anatomy, human microscopic and developmental anatomy, human neuroanatomy, medical microbiology, general/clinical pathology, pharmacology, clinical pharmacology, behavioral science and medicine, correlative medicine, docent rotation, psychiatry, obstetrics/gynecology, pediatrics, surgery, family medicine, emergency medicine, and continuing care clinic.

**Program Requirements**
Graduate Certificate in Orthodontics and Dentofacial Orthopedics

The following learning outcomes have been developed and adopted by the faculty. These goals, skills and knowledge every graduate must demonstrate to qualify for graduation. The Department of Orthodontics and Dentofacial Orthopedics require these outcomes be assessed in the classroom, the laboratory, and through treatment of clinical cases over the 30-month program. Their competencies are assessed through examinations, presentations of papers, and clinical treatment comprehensive examinations.

1. Demonstrate a commitment to learning, professionalism, societal responsibility, and contributing to generalizable knowledge through research
2. Demonstrate a commitment to the addressing the concerns of patients and the delivery of quality care.
3. Demonstrate the level of proficiency expected of an orthodontic specialist in the areas of diagnosis, treatment planning, and analysis of treatment outcomes.

Residents enrolled in the Orthodontics and Dentofacial Orthopedics Advanced Education Program must complete the following requirements:
1. Complete a 30 month program of clinical training, didactic course work, and undergraduate teaching.
2. Complete a hypothesis driven research project and produce a manuscript for submission to a scientific journal accessible through PUBMED®.
3. Maintain a 3.0 GPA for 39 credit hours of core curriculum (see below).
4. Meet Student Learning Outcomes of the Orthodontics and Dentofacial Orthopedics section of the UMKC School of Dentistry.
5. Take the Phase II examination of the American Board of Orthodontics during the second year of residency.

Required Core Curriculum:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-SCI 5706</td>
<td>Growth and Development I</td>
</tr>
<tr>
<td>BIO-SCI 5707</td>
<td>Growth and Development II</td>
</tr>
<tr>
<td>ORTHOD 5726</td>
<td>Cephalometrics I</td>
</tr>
<tr>
<td>ORTHOD 5727</td>
<td>Cephalometrics II</td>
</tr>
<tr>
<td>ORTHOD 5704</td>
<td>Orthodontics and Dentofacial Orthopedics I</td>
</tr>
<tr>
<td>ORTHOD 5705</td>
<td>Orthodontics and Dentofacial Orthopedics II</td>
</tr>
<tr>
<td>ORTHOD 5706</td>
<td>Orthodontics and Dentofacial Orthopedics III</td>
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<td>ORTHOD 5707</td>
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<td>BIO-SCI 5740</td>
<td>Pathology</td>
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<tr>
<td>BIO-SCI 5760</td>
<td>Physiology of Oral Hard Tissues</td>
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<tr>
<td>BIO-SCI 5704</td>
<td>TMD: Evaluation and Management</td>
</tr>
<tr>
<td>BMS 9701</td>
<td>Head and Neck Anatomy</td>
</tr>
<tr>
<td>RES-ME 5700</td>
<td>Introduction to Research Methodology</td>
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<td>RES-ME 5704</td>
<td>Introduction to Biostatistics</td>
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<tr>
<td>BIO-SCI 5751</td>
<td>Elements of the Scientific Method</td>
</tr>
<tr>
<td>BIO-SCI 5752</td>
<td>Research Methods in Oral Biology</td>
</tr>
<tr>
<td>BIO-SCI 5799</td>
<td>Research and Thesis</td>
</tr>
<tr>
<td>RES-ME 5703</td>
<td>Thesis Writing</td>
</tr>
</tbody>
</table>
Graduate Certificate in Periodontics

Student Learning Outcomes
The following learning outcomes have been developed and adopted by the faculty. These goals, skills, and knowledge must be demonstrated by every graduate to qualify for graduation. The Department of Periodontics assess these outcomes in the classroom, the laboratory, and through treatment of clinical cases over the length of the program, using examinations, presentation of papers, and review of clinical treatment. The competencies expected of a graduate are:

- Have an understanding of the biology and pathology of the periodontium.
- Be soundly based in the interpretation of the dental literature in periodontics.
- Be clinically competent to conceptualize, rationalize and defend periodontal therapy in advanced cases. In addition, he/she should be aware of and have performed current therapeutically accepted periodontal modalities.
- Be innovative and logically reason using prior biological information.
- Be worthy of the title "Specialist".
- Be able to communicate, motivate and educate patients and general dentists on their level.
- Believe in the necessity of continuing education and self-enrichment.
- Assume leadership in the advancement of periodontics in his/her community. He/she also should be active in the American Academy of Periodontology.
- Be able to demonstrate an organizational ability to collect and present data.
- Be able to interpret the collected data and subsequently to diagnose, prognosticate and develop a Comprehensive Treatment Plan.
- Be able to evaluate, critically, the results of therapy.
- Be able to demonstrate his/her ability to perform all the above activities in a professional manner.
- Design, conduct and present a research project. Each research project must be written in a format suitable for publication.

Program Requirements
Residents enrolled in the Periodontics Advanced Education Program must complete the following requirements:

1. Graduate students, regardless of classification, must maintain a 3.0 (B) grade point average for all course work taken for graduate credit at UMKC.
2. Graduate students must maintain a 3.0 (B) grade point average in their graduate level specialty course work.
3. Grades in specialty area course work must be B or better. Any specialty area course that is graded below B must be repeated.
### Required Core Curriculum

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
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<td>PERIO 5702</td>
<td>Periodontal Residency II</td>
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</tr>
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<td>Periodontal Residency III</td>
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<td>Periodontal Residency IV</td>
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<tr>
<td>BMS 9701</td>
<td>Head &amp; Neck Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5740</td>
<td>Oral Pathology</td>
<td>2</td>
</tr>
<tr>
<td>RES-ME 5700</td>
<td>Introduction to Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5710</td>
<td>Molecular Genetics and Biochemistry of Cranial Facial Biology</td>
<td>2</td>
</tr>
<tr>
<td>RES-ME 5704</td>
<td>Introduction to Biostatistics</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5705</td>
<td>Molecular Biology of Oral Microflora</td>
<td>2</td>
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<td>BIO-SCI 5760</td>
<td>Physiology of Oral Hard Tissues</td>
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<tr>
<td>BIO-SCI 5759</td>
<td>Special Problems in Pharmacology</td>
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<tr>
<td>BIO-SCI 5802</td>
<td>Immunopathology</td>
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</tbody>
</table>
Master of Science in Oral Biology

Department of Oral Biology

Chairman, Department of Oral Biology:
Mark L. Johnson, Ph.D.

Director of Graduate Research Programs, Department of Oral Biology
Mary P. Walker, D.D.S., Ph.D.

Doctoral Faculty Participation: Cynthia Amyot, Lynda Bonewald, Bonnie Branson, Charles M. Cobb (E), Sarah Dallas, J. David Eick, Jeffrey Gorski, Laura Iwasaki, Mark Johnson, Ying Liu, Carole McArthur, Jeffrey Nickel, John Purk, Paulette Spencer (E), Yasuyoshi Ueki, Mary Walker, Yong Wang, Ling Ye

- General Nature of the Program
- Admission Information
- Master of Science: Oral Biology
  - Student Learning Outcomes
  - Program Requirements
  - Thesis Research
  - Thesis Writing
  - Other Requirements

General Nature of the Program
The School of Dentistry offers a program leading to an MS in oral biology. A separate application is required for the master of science program in oral biology. The goal of the program is to introduce students to the scientific method and to assist them in developing academic careers. The program includes advanced work in basic, behavioral and clinical sciences relating to dentistry. The coursework and thesis present an opportunity for the student to cross traditional departmental lines and undertake an interdisciplinary approach to the study of problems related to oral biology. On successful completion of all necessary coursework and thesis requirements, the student is awarded a master of science degree in oral biology.

Admission Information

Eligibility
All applicants for the master of science in oral biology program must first meet UMKC requirements for admission as a graduate student (see Graduate Academic Regulations and Information earlier in this catalog.)
To be eligible for admission to the master of science in oral biology program, an applicant either must hold a baccalaureate degree or a D.D.S. or equivalent degree. In general, he or she should have a minimum cumulative GPA of 3.0 (based on a 4.0 scale) for all undergraduate work, including dental school (if applicable).

Applicants must also meet the minimum GRE requirements.

<table>
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<tr>
<th>GRE</th>
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<tr>
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<tr>
<td>Verbal</td>
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<tr>
<td>Writing</td>
<td>4.0</td>
<td>4.0</td>
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</tbody>
</table>

**Admission Procedure**

Requests for information, including application materials, should be directed to:
Department of Oral Biology: Graduate Programs
UMKC School of Dentistry
650 East 25th Street
Kansas City, MO 64108-2795

The Department of Oral Biology has a rolling deadline and accepts MS applications year round.

**Evaluation Criteria for Admission:**

**Transcripts**
Analysis of transcripts from all prior institutions is required.

**Letters of Recommendation**
Three letters of recommendation are required from current or former teachers who are familiar with the applicant's past achievements and research ability/potential.

**Personal Statement**
A personal statement describing why the candidate is interested in pursuing a master of science in oral biology, how the experience of the program may be used by the candidate in the future, and a list of potential research interests must be submitted by the applicant.

**Interviews**
Interviews are not required. However, interviews will be arranged upon the candidate's request at the School of Dentistry. Successful interviews may enhance the candidate's chance of acceptance.

The chairman of the Advanced Education Committee will notify the applicant regarding acceptance status.
Master of Science in Oral Biology

Student Learning Outcomes
OBJECTIVES
In addition to writing a research proposal, completing a research project, and writing a thesis, a minimum of 30 credit hours including the core curriculum is required for the MS Degree. The course curriculum will be developed in consultation with the Oral Biology Director of Graduate Research Programs and faculty who serve on the supervisory committee. The developed program of study will meet the student’s individual needs and research interests, satisfy discipline-specific requirements, and assure upon graduation that students are able to:

- Demonstrate appropriate depth and breadth of knowledge in their discipline
- Use scholarship and research skills to evaluate the literature and make evidence-based decisions
- Work effectively in a collaborative environment
- Effectively communicate results of their research to diverse audiences
- Apply ethical principles to all aspects of their professional life
- Think critically and creatively as clinicians and researchers
- Develop skills to become good mentors and communicators
- Successfully complete the CITI Research Ethics Tutorial at: http://www.umkc.edu/ors/irb/training.cfm. When finished, the Certificate of Successful Completion will be printed and turned in to the Oral Biology Administrative Office to be placed in the student’s file.

Program Requirements
The candidate enrolled in this program must complete a minimum of 30 semester hours of coursework. These courses must be listed on the Master's Degree Program of Study form (available from the Department of Oral Biology office) and must be signed by the thesis adviser, members of the thesis committee, and chair of the Department of Oral Biology. The required core curriculum will consist of the following courses:

- BIO-SCI 5751 Elements of the Scientific Method
- BIO-SCI 5752 Research Methods in Oral Biology
- BIO-SCI 5799 Research and Thesis
- RES-ME 5700 Introduction to Research Methodology
- RES-ME 5703 Thesis Writing
- RES-ME 5704 Introduction to Biostatistics

The thesis committee may require additional courses. This catalog contains listings of appropriate graduate level courses. Some examples of additional courses applicable to the program:

- BIO-SCI 5710 Genetics and Biochemistry of Craniofacial Biology
- BIO-SCI 5739 Biomaterials for the Dental Specialist
- BIO-SCI 5740 Oral Pathology I
- BIO-SCI 5743 Advanced Seminar in Biomaterials
- BIO-SCI 5747 Research Instrumentation
- BIO-SCI 5759 Special Problems in Pharmacology
- BIO-SCI 5760 Physiology of Oral Mineralized Tissues
- BIO-SCI 5802 Immunopathology
- BIO-SCI 5805 Molecular Biology of Oral Microflora
- BIO-SCI 5830 Structural Characterization of Dental Biomaterials
- OR-BIO 5700 Embryonic Development of the Face and Oral Cavity
Of the 30 semester hours, no more than 6 semester hours of graduate work taken at institutions other than UMKC may be transferred. The transfer of 6 graduate credit hours includes those courses deemed appropriate to the student's program of study by the thesis committee.

The student must conduct an original investigation in a basic, behavioral or clinical science area and write a thesis describing the research and reporting the results of the study. The student will be required to successfully defend the thesis in a final oral examination at a university-wide seminar.

Enrollment in BIO-SCI 5751 Elements of the Scientific Method and in BIO-SCI 5752 Research Methods in Oral Biology is required. These courses are the foundation for writing a Research Proposal for the MS thesis project.

Within BIO-SCI 5751 the student will conduct a literature review associated with developing a research question for the thesis research proposal.

As part of BIO-SCI 5752 the student will write the thesis research proposal in consultation with the committee chair and members plus obtain appropriate IRB and/or IACUC approvals. The research proposal serves as the written portion of the Qualifying Exam. Once the written proposal has committee approval, the student will give a presentation about the proposal and answer related questions pertaining to the proposal. This serves as the Oral portion of the Qualifying Exam.

Enrollment in BIO-SCI 5799 Research and Thesis is also required as a part of the student's program of study. To reflect the student's research involvement in activities that will ultimately lead to the completion of the thesis, multiple semesters of enrollment in this course are allowed. Cumulative credit for this course may not exceed 6 hours. Until the thesis is successfully completed and defended, a grade of incomplete (I) is given for each term of enrollment in this course. Upon successful defense and completion of the thesis, incomplete grades will be changed to an appropriate letter grade.

While the MS program in oral biology can be pursued simultaneously with dental specialty certificate programs, it is likely that such a student can expect to spend 6 months or longer beyond the period designated for the certificate program to obtain the master of science in oral biology.

**Thesis Research**
The major criterion of the MS in oral biology is original research. This original research may be conducted in basic, behavioral or clinical sciences. Adherence to all standards established by the School of Graduate Studies is necessary for final acceptance and approval of the thesis.

**Thesis Committee**
Each student is responsible for selecting a thesis committee chair who must be an Oral Biology faculty member. The selection of a thesis chair must be completed within the students first semester of study and approved by the Department of Oral Biology Director of Graduate Research Programs. Once the chair is selected, the student and the chair will select two or more additional faculty members to serve on the thesis committee. One additional member of the thesis committee must be a member of the Department of Oral Biology and all of the faculty selected must be members of the graduate faculty. Committee members should be selected for their ability to provide additional advice and resources to augment the thesis research of the student.

Following committee selection, the Program of Study form must be completed. This document serves as the record of selected committee members and required courses for each student. The Program of Study form and example course lists (for concurrent specialty certificate program students) are available on the Oral Biology Web site at [http://dentistry.umkc.edu/oralbio/MasterOralBiology.shtml](http://dentistry.umkc.edu/oralbio/MasterOralBiology.shtml).
completed Program of Study must be signed by all committee members; the Department of Oral Biology Director of Graduate Research Programs; the Department of Oral Biology Chair; and the Dean or Graduate Officer, School of Dentistry. The completed form must meet all Department of Oral Biology and School of Graduate Studies requirements.

All thesis committee members must approve a thesis research proposal before the research project is initiated. The thesis committee members also advise and guide the students in the successful completion of their research and determine when the MS thesis is complete.

Thesis
Original research will be used to construct a formal thesis conforming to the standards set by the School of Graduate Studies (see University of Missouri-Kansas City Guide to Formatting Graduate Theses, which can be obtained at the UMKC Dental Library). At least ten weeks prior to graduation, the completed thesis must be submitted to the thesis committee for its preliminary approval.

After all members of the thesis committee have read and given preliminary approval to the content of the thesis, and the instructor(s) of the course RES-ME 5703 Thesis Writing has given preliminary approval to the format of the thesis, and at least six weeks prior to graduation, the original typewritten copy must be submitted to the School of Graduate Studies for certification by the dean of Graduate Faculties and Research. After the thesis has been certified for acceptance by the dean of Graduate Faculties and Research, the thesis committee will require the student to defend the thesis. School of Dentistry regulations require students to defend their theses by presenting university-wide seminars on their research. In addition to the required distribution of copies (see the UMKC Guide to Formatting Graduate Theses and the General Graduate Academic Regulations and Information section of this catalog), a copy of the thesis also must be received for retention by the Dental Library of the School of Dentistry.

RES-ME 5703 Thesis Writing

The methods of preparing, organizing, and presenting research findings using scientific writing format will be reviewed for completing a thesis. This course is required for the MS degrees in Oral Biology and Dental Hygiene Education.

Students will be expected to comply with all rules, regulations and requirements specified in the General Graduate Academic Regulations and Information section of this catalog.
Master of Science Degree in Dental Hygiene Education

Dental Hygiene Education Program

Director: Tanya V. Mitchell, R.D.H., M.S.

- About the Master of Science in Dental Hygiene
- Requirements for Admission
- Job Opportunities
- Educational Fees
- Scholarships
- Master of Science in Dental Hygiene Education
  - Student Learning Outcomes
  - Program Requirements
  - Retention Requirements
  - Graduation Requirements
- Customized Plan of Study

About the graduate program in Dental Hygiene Education

The master of science degree in dental hygiene education program provides the educational and professional environment to enrich dental hygienists through a collaborative experience resulting in competent graduates able to pursue diverse innovative career opportunities. Candidates may pursue graduate studies with a concentration in teacher preparation (clinical and classroom teaching) and research. Additional opportunities are available in areas of gerontology, special patient care and health services administration for campus students.

The graduate program has a rich history of preparing dental hygienists for leadership roles in academia and industry. The program is housed in the School of Dentistry and is one of the few such graduate programs in dental hygiene in the country.

The graduate program is specifically designed to be flexible and innovative to meet the candidates' educational goals and objectives for careers in the dental hygiene profession, as well as to help meet the dental hygiene faculty and administrative needs of accredited dental hygiene and dental assisting programs. The majority of courses are available online.

Courses may be chosen from a wide variety offered in the School of Dentistry, School of Administration, College of Arts and Sciences, School of Nursing, or any other academic unit at the University of Missouri-Kansas City. The 36 credit hour graduate program may be completed on a full- or part-time basis. The core curriculum is completed online with the exception of 2 (3 credit hour) courses. These must be taken and transferred from an accredited institution (See course descriptions designated by an *). However, the Research Methods and Biostatistics courses are offered onsite at UMKC SOD. Full time students are required to attend a minimum of two academic years.
Basic knowledge and experience in conducting research is gained through related course work. The completion of a thesis or research project (manuscript ready for publication) is required as part of the graduate student’s academic program. The topic should be aligned with the ADHA National Research Agenda, which can be found at www.adha.org. The thesis/research project is completed through the collaborative efforts of the graduate candidate and a supervisory committee. The chairperson of the graduate committee must be a member of UMKC Graduate Faculty. If the student is completing a thesis, the student should visit the following website for more information: http://sgs.umkc.edu/guidelin/index.asp

Requirements for Admission
Graduation from an accredited school or program of dental hygiene, a baccalaureate degree from an accredited college or university, and a satisfactory academic undergraduate record are required. The deadline for application is Feb. 1 for the class beginning the following Fall semester. An interview is a required component of the admissions process. Interviews are granted to candidates for this program by invitation only. Application forms and information may be obtained from the Director, Graduate Dental Hygiene Education, Division of Dental Hygiene, at the address at the beginning of this section. Enrollment is limited.

Questions about this program may be answered by contacting the program director's office at (816) 235-2049 or villalpandot@umkc.edu.

Completed applications must be submitted to the Director of Graduate Dental Hygiene Education at the above address by Feb. 1 for the class beginning the following Fall semester. The required application materials must include:

1. UMKC application for admission.
2. Supplemental application for admission.
4. Official transcripts of all previous academic work.
5. Three completed recommendation forms (including one from the director of the dental hygiene program attended).
6. A letter of intent sent to the director of graduate dental hygiene education explaining the applicant's main area of graduate dental hygiene interest (clinical and classroom teaching, special patient care, health services administration, gerontology or advanced clinician).

Job Opportunities
Graduate students in dental hygiene may prepare for careers in clinical and classroom education, research, administration, gerontology or special patient care in hospital or community-based settings. Availability of positions for graduates of the master of science degree program has been excellent in these career areas. Assuming the number of dental hygiene programs in the country remains at about 260, the need for highly qualified educators, researchers and administrators with master's degrees in dental hygiene education will remain strong. Students who plan a career in teaching, research or administration may consider graduate work leading to a Ph.D. degree.
### School Activities

#### Educational Fees

Students in this program are assessed educational fees (as of the 2008-09 academic year) as follows.

<table>
<thead>
<tr>
<th>Educational Fee (resident)</th>
<th>Summer Semester</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Fee (Nonresident)</td>
<td>$331.80/credit hour</td>
<td>$331.80/credit hour</td>
<td>$331.80/credit hour</td>
</tr>
<tr>
<td>Activity Fee(1)</td>
<td>$16.43/credit hour</td>
<td>$16.43/credit hour</td>
<td>$16.43/credit hour</td>
</tr>
<tr>
<td>Student Health Fee(1)</td>
<td>$.04/credit hour</td>
<td>$.04/credit hour</td>
<td>$.04/credit hour</td>
</tr>
<tr>
<td>Multipurpose Bldg. Fee</td>
<td>$15.00</td>
<td>$30.90</td>
<td>$30.90</td>
</tr>
<tr>
<td>Info Tech/Computing (2)</td>
<td>$13.20/credit hour</td>
<td>$13.20/credit hour</td>
<td>$13.20/credit hour</td>
</tr>
<tr>
<td>ASUM Fee(3)</td>
<td>$.15/credit hour</td>
<td>$.15/credit hour</td>
<td>$.15/credit hour</td>
</tr>
<tr>
<td>Student Union Fee</td>
<td>$14.38/credit hour</td>
<td>$14.38/credit hour</td>
<td>$14.38/credit hour</td>
</tr>
<tr>
<td>Collegiate Readership Fee</td>
<td>$1.40</td>
<td>$2.72</td>
<td>$2.72</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>$0.00</td>
<td>$14.00</td>
<td>$14.00</td>
</tr>
</tbody>
</table>

(1) 12 credit hour maximum, Fall & Spring (6 credit hour maximum Summer).
(2) No credit hour maximum.
(3) 10 credit hour maximum, Fall & Spring (6 credit hour maximum Summer).

Out of state students who complete coursework on a part-time basis are eligible for in-state tuition. To be eligible for this, the student must enroll in no more than 6 credit in the fall and spring semesters and no more than 3 credit hours in the summer to qualify.

**Note:** Fees are subject to change without notice.

#### Scholarships

Graduate research assistantships and nonresident tuition-waiver awards are available to students on a competitive basis. The American Dental Hygienist's Association awards scholarships to dental hygienists at the master's degree level on a competitive basis. Please contact the director of graduate dental hygiene education for more details of possible funding for graduate studies through the Division of Dental Hygiene.

#### Customized Plan of Study

The graduate program is flexible and innovative in its tailoring to the interests and needs of the graduate student. Both a thesis and non-thesis option are available for the master's degree program. In addition, the program allows students to enroll on either a part-time or full-time basis. The typical length of study for the thesis track is two years. Entering students will begin coursework in the Fall semester. An innovative distance education option allows the candidate the prestige of a graduate education with the convenience of online technology. Interested candidates are advised to consult with the program director.

The curriculum is designed to provide meaningful academic experiences and activities for each graduate student as matched with program coursework offerings, facilities and resources. Typical courses for the graduate program depend on the graduate student's area of concentration. A classroom and clinical teaching area of concentration includes classroom and clinical student
teaching with dental hygiene and dental students, curriculum concepts and practicum, special problems in dental hygiene, principles of testing, introduction to research methodology, biostatistics, periodontics and local anesthesia. A wide variety of electives may be chosen from those offered in the School of Dentistry, the Henry W. Bloch School of Business and Public Administration, the School of Education, the College of Arts and Sciences, the School of Nursing or any other academic unit at UMKC.

The School of Dentistry provides an ideal environment for graduate students to interact with clinical and basic science dental faculty and other advanced-education specialty students for an exchange of ideas, knowledge and resources. In addition, graduate dental hygiene students actively participate in lectures, seminars, and practical and independent study that address their needs and interests for their future careers.

Graduate students are required to design and conduct a research project in fulfillment of their research requirement for both the thesis and non-thesis options of the program. This is accomplished under the supervision of a research advisory committee. Basic knowledge and skills in conducting research are gained through research coursework offered both in the School of Dentistry and on the UMKC campus. Funding for graduate student research is often available from the Dental School Rinehart Foundation, as well as other external funding sources.

**Master of Science: Dental Hygiene Education**

Competencies Expected of a UMKC Graduate in the Graduate Dental Hygiene Program

A set of 6 competencies have been developed for students. These are employment-oriented and include skills required to function in the workplace.

1.0: Our Graduates will be competent in managing themselves.
2.0: Our Graduates will be competent in managing information.
3.0: Our graduates will be competent in communicating.
4.0: Our graduates will be competent in managing people and tasks.
5.0: Our graduates will be competent in mobilizing innovation and change.
6.0 Our graduates will be competent in ethical decision making.

**Required Courses**

- **DENT-HYG 4020** Local Anesthesia and Pain Control
- **DENT-HYG 4040** Introduction to Research and Instruction
- **DENT-HYG 5500** Educational Methologies
- **DENT-HYG 5510** Student Teaching and Conference I
- **DENT-HYG 5516** Special Issues in Higher Education
- **DENT-HYG 5530** Clinical Instruction and Conference
- **DENT-HYG 5553** Seminar in Advanced Clinical Techniques and Methodologies
- **DENT-HYG 5595** Scientific Writing
- **DENT-HYG 5599** Research and Thesis
- **RES-ME 5700** Intro. to Research Methodology
Total number of credit hours required for completion of the graduate program is 36 credit hours for either the thesis or non-thesis option.

Other Requirements
Students will be expected to comply with all rules, regulations and requirements in the General Graduate Academic Regulations and Information section of this catalog.

Graduate students, regardless of classification, must maintain a 3.0 (B) grade-point average in all coursework taken for graduate credit at UMKC and must meet any additional academic requirements imposed by the school, department or Interdisciplinary Ph.D. discipline. Students are responsible for keeping apprised of their academic status by referring to term grades and their permanent academic record on file in the UMKC Registration and Records Office.

Whenever the cumulative GPA for UMKC courses taken for graduate credit by a graduate student of any classification falls below 3.0, the student's status for the next term becomes: "On Probation - See principal graduate adviser." (Interdisciplinary Ph.D. students will be directed to consult their interim adviser or research adviser.) The principal graduate adviser, interim adviser or research adviser will review the student's progress and provide counsel, and the following conditions apply:

- A graduate student on probation who is not restored to good academic standing by the end of two successive regular semesters following the term in which the cumulative GPA fell below 3.0 will be declared ineligible to re-enroll.
- While on probation, a graduate student must achieve a 3.0 term GPA in order to enroll for the following term.
- A graduate student on probation will not be restored to good standing until a cumulative graduate-credit GPA of at least 3.0 is achieved.

Requirements include:
1. A 3.0 GPA.
2. Successful completion of 36 credit hours with a thesis or non-thesis option.
3. Prepare and present a table clinic at the Midwest Dental Conference during the Spring Semester.
4. All other requirements for graduation as stated in the General Graduate Academic Regulations and Information section of this catalog.

Successful completion of a portfolio as presented in DHGR 5516. The final portfolio must be turned into the program director six weeks prior to the student's anticipated graduation date.
Education, School of

School of Education
Education Building, Room 347
615 E. 52nd Street
(816) 235-2260 Dean's Office
(816) 235-2234 Student Services
Fax: (816) 235-5270
education@umkc.edu
http://education.umkc.edu/

Mailing Address
University of Missouri-Kansas City
School of Education
5100 Rockhill Road
Kansas City, MO 64110-2499

Dean:
Wanda J. Blanchett

Associate Dean:
LaVerne Berkel

Associate Dean for Teacher Education:
Monika Williams Shealey

Assistant Dean for Student Services:
Renique Kersh

Division of Counseling and Educational Psychology Chair:
Nancy Murdock

Division of Curriculum and Instructional Leadership Chair:
Rita Barger

Division of Educational Leadership, Policy and Foundations Chair:
Bonita Butner
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  o Areas of Study and Degrees
  o Student Learning Outcomes
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• Division of Educational Leadership, Policy and Foundations
  o Areas of Study and Degrees
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  o Student Learning Outcomes (Higher Education)
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  o Advising
  o Admission
  o Retention
  o Recommendations for Teacher Certification
  o Graduation Requirements
  o Undergraduate Programs
    ▪ Student Learning Outcomes
    ▪ Bachelor of Arts: Early Childhood Education
    ▪ Bachelor of Arts: Elementary Education
    ▪ Bachelor of Arts in Middle School Education
    ▪ Bachelor of Arts in Secondary Education
  o Institute for Urban Education
• Undergraduate Courses
  o Counseling Psychology and Counselor Education (CPCE)
  o Curriculum and Instruction (EDUC-C&I)
  o Education (EDUC)
  o Physical Education (PHYS-ED)
  o Reading (EDRD)
  o Special Education (EDUC-SP)
  o Teacher Education (TCH-ED)
• Graduate Programs
• General Information on Master of Arts Degrees
• Graduate Certificate Programs
  o Graduate Certificate in Health Professions Curriculum and Evaluation
  o Graduate Certificate in Community College Leadership
• Master of Arts: Counseling and Guidance
  o Couples and Family Counseling
  o Mental Health Counseling
  o School Counseling
• Master of Arts: Educational Administration
  o Emphasis Area: School (Grades K-12) Administration
  o Emphasis Area: Higher Education
• Master of Arts: Curriculum and Instruction
  o Emphasis Area: General
  o Emphasis Area: Early Childhood
  o Emphasis Area: Elementary
  o Emphasis Area: Subject Matter
  o Emphasis Area: Multicultural Education
  o Emphasis Area: Teaching English as a Second Language
  o Emphasis Area: Learning Technologies
• Master of Arts: Reading Education
• Master of Arts: Special Education
• General Information on Educational Specialist Degrees
• Educational Specialist: Educational Administration
• Educational Specialist: Counseling and Guidance
• Educational Specialist: Curriculum and Instruction
• Educational Specialist: Reading Education
• General Information on Doctoral Degrees
• Educational Administration, Ed.D.
• Counseling Psychology, Ph.D.
• Interdisciplinary Ph.D.
• Graduate Courses
  o Counseling Psychology and Counselor Education (CPCE)
  o Curriculum and Instruction (EDUC-C&I)
  o Education (EDUC)
  o Reading (EDRD)
  o Research and Psychology (EDUC-R&P)
  o Special Education (EDUC-SP)
  o Teacher Education (TCH-ED)
  o Urban Leadership (EDUC-UL)
History and Mission
The School of Education, organized officially as a separate academic division in 1954, was the result of the University of Kansas City's involvement in professional education since 1940. At that early date the University was offering an M.A. in education, heavily liberal-arts laden, with most classes conducted in the summer and evenings. An undergraduate major in elementary education was established in 1952, and the first University of Kansas City doctoral program, the Ph.D. in education, was inaugurated with the organizing of the school in 1954. Since 1954, the school has grown to include three disciplinary divisions with 19 programs, offering bachelor of arts, master of arts, educational specialist, education doctorate and doctor of philosophy degree programs. Several degree and certification programs are offered in cooperation with the the School of Biological Sciences, the Conservatory of Music and the College of Arts and Sciences.

The mission of the School of Education is to recruit, prepare and support outstanding teachers, mental health professionals and administrators who will create lifelong opportunities through education for America's diverse urban communities. This mission is centered on six key values which embody the knowledge, skills and dispositions expected of our candidates across the School of Education. The goals defined by individual programs are more specific subsets of these broader goals:

1. Academic excellence.
2. Strategic innovation.
3. Inquiry leading to reflective decision making and problem solving.
4. Skilled and knowledgeable professionals working collaboratively.
5. Democracy, diversity and social justice.
6. Caring and safe environments.

Curricula Objectives
The UMKC School of Education has been committed to professional education in the Kansas City metropolitan area for over 50 years. Throughout the School's history, faculty have an established record of involvement in educational reform - exemplified through innovative teaching methods, action-based research, and community-focused programs preparing teachers, administrators, and mental health professionals for the challenges in urban communities today and for the future.

The primary objectives of the School of Education, which stem from our conceptual framework, mission, and values, are:

- To provide sound theoretical foundations and practical skills at the undergraduate and graduate levels required for competent performance by teachers, administrators and special-services personnel in schools, colleges and universities in a culturally pluralistic society.
- To provide graduate education and research skills which are supportive of and lead to advanced levels of scholarly achievement.
- To provide a diversity of specialized education and training programs for persons engaged in educational roles in non-school settings such as governmental agencies, social service agencies, mental and physical health care institutions, business and industrial organizations and private practice.
- To provide leadership, consultation and other support services for quality improvement in planning and conducting educational programs in schools, higher education institutions, and community agencies and organizations.
- To provide professional development opportunities for educators at all levels through specially designed programs in research, continuing education instruction, in-service programs and workshops.
- To impact the student learning in classrooms and communities throughout Missouri and the Kansas City metropolitan region in positive and meaningful ways.
- To make original contributions to the broad field of professional education through basic and applied research by both faculty and students with specific emphasis on issues of urban education.

Accreditation
The teacher education programs of the School of Education are accredited at the bachelor's, master's, educational specialist and doctoral levels by the National Council for Accreditation of Teacher Education for the preparation of elementary teachers, secondary teachers and other school personnel. Continuing accreditation was granted in Spring 2012. The School of Education is a member of the American Association of Colleges of Teacher Education. The Ph.D. program in Counseling Psychology is accredited by the American Psychological Association. Programs for the preparation of teachers and other school personnel are approved by the Missouri Department of Elementary and Secondary Education.

Advising and Student Services
The School of Education Student Services Office mission is to facilitate student success by providing quality services and support in the spirit of building a community of learners. The office is a resource for all School of Education students, providing program information as well as referrals to other campus resources and services. Primary responsibilities are to provide quality advising for undergraduates and to coordinate the processing of certification. The staff also assists with recruitment events, contact with prospective students, freshmen and transfer orientation, admissions to teacher education, School of Education scholarship materials, commencement and other student-centered activities.
Academic advisers are available to meet with undergraduate education majors and those seeking teacher certification. Academic advisers can be reached by contacting Student Services at (816) 235-2234. Additionally, each student is assigned a faculty adviser. Faculty advisers are available for assistance in program and career planning. Graduate students are encouraged to contact their department within the first semester to connect with their faculty adviser.

Scholarships
The School of Education has the following named scholarships to offer students enrolled in an education degree program. All scholarships are formally announced in November, with selection completed in March for awarding the following academic year. Application materials are available in November from the Education Student Services Office and are due by February 1
each year. All scholarship recipients are selected by the School of Education Scholarship Committee.

**Dr. Phyliss L. Bernstein Scholarship**
Doctoral students currently enrolled in the School of Education's Counseling Psychology Program may apply. Criteria for selection include academic achievement, financial need and skills in interpersonal relations as demonstrated by leadership in campus or community involvement.

**Wheadon Bloch Scholarship**
Established in 1990 in honor of Professor Emeritus Wheadon Bloch, this scholarship supports a graduate student who has excellent academic, research and leadership skills. Preference given to students in Higher Education Administration.

**Pallas K. Cockefair Scholarship**
This scholarship was established to assist full-time junior or senior students in the teacher education program.

**George and Grace Fox Scholarship**
This scholarship was established to assist students interested in preparing for a career in the correction and prevention of reading disabilities in a college, university or public school setting.

**Patricia J. Gier Memorial Scholarship**
In recognition of Patricia J. Gier, this scholarship is available to an undergraduate or graduate student pursuing a degree in teacher education. Preference may be given to a non-traditional female student.

**Haldex Brake Products Corporation Scholarship**
This scholarship was established to assist students in the Institute for Urban Education (IUE) in their sophomore year or above. Preference is given to an underrepresented student, with financial need, having graduated from a high school in one of five Kansas City metropolitan counties (In Missouri: Cass County, Jackson County or Platte County. In Kansas: Johnson County or Wyandotte County).

**Lena and Haddon Hill Scholarship**
Endowed by Professor Emeritus Shirley A. Hill in honor of her parents in 1993, this scholarship is awarded to students who plan a career teaching mathematics at any level.

**Shirley Hill Scholarship**
This scholarship is awarded to a degree-seeking student planning to teach in a K-12 classroom or at the college level.

**Kansas City Elementary Teachers' Club Scholarship**
This scholarship, endowed by the Kansas City Elementary Teachers Club, is for elementary or secondary education majors who demonstrate characteristics of a successful teacher and are entering their final year of the teacher education program.
Mazuma Credit Union Scholarship
Given to an undergraduate student pursuing a degree in teacher education who is a resident of Jackson, Clay or Cass counties in Missouri.

Ralph Parish Memorial Scholarship
Through the generosity of the friends and family of Ralph Parish, a scholarship shall be awarded to a deserving undergraduate or graduate student in the School of Education. Preference is given to minority students.

Marian Alice Simmons Scholarship
In memory of Marian Alice Simmons, long-time School of Education reading instructor and mentor. Preference is given to full-time student(s) seeking a teaching degree.

Ruth G. and Phillip W. Snyder Scholarship
A scholarship is awarded annually to an elementary education major or a student intending other work in elementary schools. Students must be involved in community and/or campus activities.

Hugh W. Speer Fellowship
Established to honor the first dean of the UMKC School of Education, the Hugh W. Speer Fellowship provides financial support for graduate students in higher education administration. Preference is given to a student planning to teach or work within a community college setting.

Joseph and Gwen Speyer Scholarship
Awarded to a student(s) with financial need who is enrolled in the Special Education Master's degree program and who demonstrates commitment to the field.

Helen Lee Stevens Scholarship
Established to honor a pioneer faculty member in counseling psychology, the Helen Lee Stevens scholarship is awarded to entering counseling psychology doctoral students who demonstrate excellent academic potential. The faculty of the Division of Counseling and Educational Psychology name the recipient of this award. There is no application.

Mark Avery Stitt Memorial Scholarship in Teacher Education
This scholarship will be awarded to a student that has been admitted to the Teacher Education program. Preference will be given to history or social studies education majors. Recipient must demonstrate financial need.

Thomas and Teresa Sullivan Scholarship
Given to a middle school or secondary education student. Preference is given to a first-generation college student and/or a student majoring in mathematics education.

College Club Esther Teague Scholarship
This scholarship was established by the College Club in honor of long-time kindergarten teacher, Esther Teague. Scholarships are awarded to deserving education majors entering their final year of the teacher education program.
Maxine Cooper Thompson Scholarship
This scholarship is awarded to a School of Education student with financial need from an urban school district.

UMKC Campus Facilities Management SOE Scholarship
The scholarship is open to a degree-seeking student at the undergraduate or graduate level having graduated from a high school from one of five Kansas City metropolitan counties (Jackson, Clay, Cass, Wyandotte and Johnson). Recipient must demonstrate financial need.

UMKC School of Education Alumni Association Board Scholarship
This scholarship was established through the diligence of the School's Alumni Association. A deserving graduate student in the School of Education is awarded the scholarship annually.

Terrence R. and Linda D. Ward Scholarship
This scholarship is available to all majors in Education. Preference will be given to a graduate of the North Kansas City School District. Recipient must demonstrate financial need.

Dr. Warren Wheelock Scholarship in Reading Education
Established in 1994 to honor Professor Warren Wheelock, this scholarship supports a student studying reading.

Hazel Browne Williams Scholarship
Recognizing the first African American faculty member at UMKC, the scholarship is open to degree-seeking students at the undergraduate or graduate level. Preference is given to minority students.

Student Organizations
The School of Education Student Government strives to expand the students' academic concerns and abilities, promote students' involvement in the School of Education and the University, act on all matters concerning students' welfare, aid faculty and students in cooperative work and promote a professional attitude and feeling of responsibility. Community service is also a regular part of the activity of the SOESG. The organization meets on a regular basis and welcomes all students' attendance and participation.

The American Psychological Association -- Student Affiliate Group encourages professional development within the field of counseling psychology. It also serves as a meeting time for the members to discuss issues and concerns of the counseling psychology doctoral program. It encourages students to organize educational, social and fund raising events, and to act as a liaison with the counseling psychology faculty and the UMKC community.

The Master's of Counseling Student Organization (MCSA) is the organization for students pursuing their Master's in Counseling and Guidance. It serves as a source of support and advocacy for students enrolled in the program. In addition to seminars and social events, MCSA has a student mentorship program. For more information, contact your MCSA officers or the division Administrative Assistant at (816) 235.2722.
The Higher Education Student Association (HESA) is a student-run organization founded to further the understanding of the purpose and practices of higher education. HESA's purpose is to serve the specific and current needs of students enrolled in or interested in the Higher Education Administration program at UMKC. The goals of the organization are to:

- Create a community among higher education administration students, faculty, and alumni
- Provide a forum for the exchange of ideas on current issues in higher education
- Offer professional experiences in conference participation, planning and organization
- Network with other Higher Education Student associations
- Assist in the professional advancement of members

Special Services

Public School Placements
The Field Placement Office in the School of Education assists in making placements to enable teachers and other school personnel to complete their various practicum experiences. All field placements require students to have a current background clearance check.

Students admitted to the Teacher Education program are required to complete practicum within one of the School of Education's nine partner districts (Center School District, KCMO, KCKS, Grandview, Hickman Mills, Independence, North Kansas City, Raytown, Turner and UMKC-sponsored charter schools). All Teacher Education programs require students to complete at least a semester-long student teaching experience. During student teaching, students are under the guidance of cooperating mentor teachers and members of the University's education staff. Weekly seminars are a required part of the program.

Career Services
The Career Services Office offers a variety of career and job-related services to students and alumni. Through Career Services, students can receive resume, interview and job search assistance. Teacher Education and School Counseling students in their last year of coursework can interview with representatives of area school districts through a Career Day sponsored by Career Services.

Students or graduates seeking a teaching or administrative position are urged to register and keep their records current in the Career Services Office, 4825 Troost, phone (816) 235-1636 or check their Web site: http://www.career.umkc.edu/. Effective August 2012, the Career Services Office will be located in the new Student Success Center.

Technology Learning Laboratory
The Technology Learning Lab is located in the STAR Center in room 129 in the Education Building. The TLL is operated by the School of Education specifically for Education students. It offers specialized equipment for scanning, digital video and digital video edition. In addition, one-on-one assistance with software applications, electronic portfolio construction and technology integration techniques for the classroom is available. Customized training is available
by appointment and on a first-come, first-served basis. Computers with the PC and Mac platforms are available. For more information, visit http://education.umkc.edu/tll.

**Office of Continuing Education**

Through Continuing Education, hundreds of courses are offered to teachers and other community members throughout the Greater Kansas City area and beyond. Credit and non-credit courses are offered throughout the year at various locations and at various times. Continuing Education also has numerous online offerings to fit any schedule. For course topics and additional information, visit our Web site at http://education.umkc.edu/CE/ or call (816) 235-**1188**.
Division of Educational Leadership, Policy and Foundations

Chair:
Bonita Butner, Ph.D.
(816) 235-2325

- M.A. Educational Administration; Emphasis Areas: Administration (Building-Level), Higher Education Administration
- Ed.S. Educational Administration; Emphasis Areas: Administration (Building-Level, Advanced Principal, District-Level)
- Ed.D. Educational Administration; Emphasis Areas: K-12 Administration; Higher Education Administration
- Ph.D. Interdisciplinary (Educational Leadership, Policy and Foundations with other disciplines) (See School of Graduate Studies)

The National Council for Accreditation of Teacher Education, the accreditation body for the School of Education, has standards which require that candidates demonstrate the knowledge, skills and professional dispositions necessary for educators and educational leaders. The academic assessment of a student in the School of Education is a significant event for both the student and the faculty. It represents an evaluation by the faculty of student competency in academic skills and/or in other critical areas of professional conduct.

At any point during the student's matriculation through the program, the faculty retains the right to review any student behavior that may affect the welfare of the student or others. Such a review may result in the student being encouraged to receive additional support and assistance or possibly not being permitted to continue in the program. The following are offered as examples of behaviors that are the basis for evaluation of student progress:

1. Failure to maintain academic standards (e.g., 3.0 GPA).
2. Academic dishonesty (e.g., cheating, plagiarism).
3. Unethical or unprofessional behavior which could include but is not limited to, dishonesty; lack of collegiality, cooperation, or responsibility; inability to handle stress; abrasiveness; lack of timeliness; to name a few.
4. Behaviors that obstruct the leadership process and/or threaten the welfare of the student or others (e.g., verbal abuse, physical abuse, active substance abuse).
5. Failure to comply with established University or Program timetables, requirements, and policies (e.g., failure to meet time limits for completion of degree program).
6. Violation of federal, state, or local laws on UMKC premises or at UMKC sponsored or supervised activities.
7. Consideration may be given to other circumstances as they arise.

Procedures for Student Evaluation
To protect student interests as well as the rights of faculty to uphold the academic and professional standards of the academic program, the following steps may be taken as part of the academic review process.
1. If a concern about student behavior develops within the context of a course or at a field experience, the course instructor and/or field supervisor documents concerns and notifies the student’s faculty adviser. The instructor meets with the student (and the faculty adviser if needed) to outline deficiencies and establish a remedial course of action (if appropriate). Chronological time frames may be established to evaluate performance. Others (i.e., program faculty or professionals and agents outside the university) who have university-related concerns about a student outside of the context of a course may communicate their concerns directly to the appropriate division chair or the Dean’s Office. (Such discussions are governed by the Family Educational Rights and Privacy Act.)

2. If the instructor(s) has made a reasonable determination with adequate documentation that a pattern of severe problems exists, he or she warrants additional action beyond that already taken. Then the instructor will communicate the concerns, actions taken and their outcomes to the faculty adviser and Division Chair and request a hearing panel be assembled to review the student’s status.

3. The student will be informed in writing by the Division Chair of the concerns and a hearing will be set by the Dean’s Office with the program faculty (at least three faculty, in addition to the faculty member filing the complaint, must be present) and the student. An Associate Dean will present the scenario(s) and the student will have a right to respond to the allegations. The hearing panel may ask questions of both parties. The student may bring another person of support to the hearing but this individual may not speak on behalf of the student. The student will receive copies of all written documentation related to the allegations in advance of the hearing. This hearing will determine the student’s status in the program.

4. The program faculty will notify the student in writing of the outcome of the hearing and make a recommendation to the Dean.

5. The student has a right to appeal the decision of the program faculty and must notify the Dean in writing within ten business days of the faculty decision. Another hearing will take place between the student and the Dean or his/her designee. The Dean reviews the recommendation and conveys a decision to the respective faculty group and the student.

6. Students who have been declared ineligible due to unsatisfactory progress or performance may appeal such decisions to the Dean of the School of Graduate Studies, as designee of the Chancellor. This appeal must be made in writing within 14 consecutive days after receipt of the registrar’s notification to the student of the decision. The Dean of the School of Graduate Studies will review the full record of the case and the appeal document.

7. The decision of the Graduate Dean, as the Chancellor’s designated representative in such cases, is final and will be communicated in writing to:
   a. The student
   b. The graduate faculty review group(s)
   c. The academic dean
   d. The registrar

Faculty in Educational Leadership, Policy and Foundations have a wide variety of experiences and interests. Faculty members engage in research and consult on education-related issues in
both public and higher education. The faculty are committed to multiculturalism and the importance of diversity in education settings. They advise students in research and administrative endeavors, and help them achieve their professional career goals.

Centers and Projects

Berkley Child and Family Development Center
The Berkley Child and Family Development Center provides quality care and education for young children and serves as a research training site for UMKC students. The center is administered through the School of Education and is part of the academic unit. It is accredited through the National Association for the Education of Young Children and licensed by the state of Missouri. Enrollment is open to the University population and the community for children ages 3 months to 6 years old. During the summer, programming is also provided for children ages 6 to 11 years old. Tuition assistance scholarships are available and are awarded based upon financial need. The center is accessible to children with special needs. To inquire about enrollment or a tour of the facility call (816) 235-2600.

Center for Economic Education
The UMKC Center for Economic Education is one of a network of centers across the state and nation that promotes economic and financial education in schools. The Center is affiliated with the Missouri Council on Economic Education, which in turn is a part of the National Council for Economic Education. The UMKC Center for Economic Education's mission is to serve the economic education needs of teachers and their students. The Center achieves its mission through development and delivery of undergraduate/pre-service teacher training, in-service teacher training, student and community programs, and web-based resources and programs.

Charter School Center
As part of UMKC's vision of active engagement with its city and its mission to collaborate in urban issues and education, the UMKC Charter School Center was created to:

- Establish and assist in the development of high quality urban schools that will retain and attract families with school-age children within the Kansas City Missouri School District.
- Sponsor charter schools which address safe and orderly climates, high attendance, increased parent involvement, high academic achievement, and effective governance practices to ensure this is the norm for all students regardless of economic standing, race, culture, or gender.
- In exchange for greater autonomy, the charter schools sponsored by UMKC are more accountable for student achievement, fiscal responsibility, and legal compliance.
- Provide schools of choice for parents and students which could encourage more effective practices and collaboration throughout the Kansas City Missouri School District.

Kansas City Regional Professional Development Center (KCRPDC)
The Kansas City Regional Professional Development Center (KCPDC) is one of nine regional professional development centers in Missouri, partially funded by the Department of Elementary and Secondary Education and serving schools, districts and educators in the Kansas City region. The mission of the KCPDC is to build the capacity of educators to maximize student
performance through high quality professional development. The Center oversees several State and federally funded projects:

**Migrant Education and English Language Learning (MELL)**
The Missouri Migrant Education and English Language Learning program (MELL) is designed to use existing resources to better serve all English Language Learning (ELL) and migrant students in the state of Missouri. The MELL program works to prevent duplicate services and allows most funds to swiftly reach any and all Missouri school districts with children of need.

**Missouri School-wide Positive Behavior Support**
Missouri School-wide Positive Behavior Support is a partnership among the Missouri Department of Elementary and Secondary Education (DESE), The University of Missouri-Columbia (MU) Center for School-wide Positive Behavior Support and the Office of Special Education Programs (OSEP) Center on Positive Behavioral Interventions and Supports, University of Oregon and Connecticut. The program facilitates teachers and administrators in implementing a behavior culture and climate to increase learning.

**NASA Education Resource**
Missouri's NASA Resource Center is located at Southeast Missouri State University in Cape Girardeau. UMKC hosts a Regional Resource consultant who provides resources and instructional lessons and support in Science.

**Special Education Consultants**
The KCPDC provides technical assistance and instructional support to special education teachers and administrators. Services include supporting effective practices, compliance, post-secondary transition planning, and MAP-A.

**Professional Learning Communities**
This Missouri Professional Learning Communities Project (PLC) evolved from the Missouri Accelerated Schools Project which had served as a school reform initiative for many years. PLC consultants work with building leadership teams during a multi-year process to implement school-wide reform.

**Curriculum, Instructional and Assessment Support**
Consultants at the KCPDC are available to assist teachers and administrators in reviewing, designing and implementing effective curriculum, instructional strategies and assessments.

**Institute for Urban Education (IUE): Description**
The Institute for Urban Education (IUE) is an undergraduate program that leads to a degree in elementary or middle school education with a focus in the teaching of math, science, and literacy. The program is specifically targeted to develop teachers for urban schools. The mission of UMKC’s Institute for Urban Education (IUE) is to partner with our community to prepare exemplary educators for urban settings. Exemplary educators are change agents who demonstrate cultural, pedagogical, subject matter, school, and interpersonal competencies.
IUE program goals are based on a set of key principles and express knowledge, skills and dispositions. These goals reflect the current knowledge base of teacher education as well as a commitment to the preparation of teachers who will be able to practice in schools as they are, and schools as they might be. The goals of the IUE are consistent with those of the School of Education Teacher Preparation program. Students receiving IUE scholarships will make a commitment to teach in an urban district following graduation in exchange for financial support. Questions regarding the IUE’s programs and offerings should be directed to an IUE representative at (816) 235-2472 or (816)235-5258.

Program Curriculum
The design of the IUE curriculum strives to prepare exemplary teachers who will positively affect student achievement. The curriculum of the IUE will prepare exemplary teachers for urban schools through an emphasis on content knowledge and culturally-responsive pedagogy, opportunities for students to gain cultural awareness and exploring cultural identities, field experiences aligned with coursework often taught in urban classrooms, and beginning teacher support. The following areas are cornerstones of the IUE:

- **Emphasis on Math, Science and Literacy content and pedagogy** The IUE curriculum includes a strong content component aligned with knowledge of how individuals learn content. The content focus of the IUE is math, science, and literacy. Students in the IUE will take math and/or science content courses nearly every semester of the program. Many of these courses are taken in alignment with teaching methods courses, allowing the students to see the immediate K-8 classroom application of content. Additionally, the content and pedagogical courses of the IUE have been designed in alignment with national and state math, science and literacy standards for elementary and middle school teachers.

- **Focus on social justice and multicultural education** The IUE curriculum emphasizes cultural awareness, culturally-relevant pedagogy and immersion in urban schools. Students in the IUE are involved in field experiences in urban schools and communities every semester of the program. Aligned with these field experiences is a seminar course, allowing students to work closely with faculty exploring the political and social nature of teaching. Immersion in urban schools will help IUE students understand the culture of urban schools, the realities of urban life and learn how to teach in culturally relevant ways, connecting pedagogy to the lives of their students.

- **Summer cultural experiences** The IUE curriculum provides students many opportunities to gain a broad and deep understanding of urban communities, and to work and socialize in that area. One such opportunity is the Summer Community Experience in which students will be fully immersed in the Kansas City community, gaining experience of other cultures and the community resources available to teachers and families. Designed with community leaders, the summer cultural experience is a six-week intensive program where students will work with local agencies to explore and serve urban communities. This experience occurs between the junior and senior years.

- **Innovative classes taught in urban school classrooms** The IUE curriculum teaches students how to apply culturally relevant and responsive teaching practices through modeling, field experiences and courses taught in urban school classrooms. These experiences allow IUE students to witness how to make necessary curricular accommodations and modifications within their teaching behaviors to meet the needs of
diverse students. Through courses taught in urban school classrooms, students see the immediate application of culturally relevant and responsive teaching and will learn how to make pedagogical modifications to address the cultures present in the classroom and make content meaningful to students.
Division of Counseling and Educational Psychology

Chair:
Nancy Murdock, Ph.D.
(816) 235-2722

- M.A. Counseling and Guidance; Emphasis Areas: School Counseling, Gerontological Counseling, Mental Health and Couples and Family
- Ed.S. Counseling and Guidance; Emphasis Areas: School Counseling, General Mental Health
- Ph.D. Counseling Psychology

The faculty in Counseling and Educational Psychology embodies a diverse gathering of expertise and interest. Faculty members conduct research in a wide variety of counseling and education-related areas, direct grant programs, and counsel clients in therapy. Individual and cultural diversity is paramount to the division, and faculty members attend to diversity issues in both coursework and research. Faculty members are invested in advising students in research, evaluation and counseling endeavors in order to help them achieve their educational goals.
Division of Curriculum and Instructional Leadership

Chair:
Rita Barger, Ph.D.
(816) 235-5655

- B.A. Early Childhood Education
- B.A. Elementary Education
- B.A. Middle School Education (English, Mathematics, Natural Science, Social Studies)
- B.A. Secondary Education; Certification areas: Art, English, Foreign Language (French, German, Spanish), Mathematics, Natural Sciences (Biology, Chemistry, Earth Science, Physics) and Social Studies

Undergraduate students may also elect to pursue a dual degree between Education and Arts and Sciences. Secondary education majors may earn a B.A. or B.S. degree in a major in the College of Arts and Sciences. Elementary and early childhood education majors may earn a bachelor of liberal arts degree in the College of Arts and Sciences. Contact the advising office of the College of Arts and Sciences for more details.

- M.A. Curriculum and Instruction; Emphasis Areas: Early Childhood, Elementary, General, Multicultural Education, Subject Matter Specialty and Teaching English to Speakers of Other Languages
- M.A. Reading Education
- M.A. Special Education (Mild/Moderate Cross-Categorical Disabilities)
- Ed.S. Curriculum and Instruction
- Ed.S. Reading Education
- Ph.D. Interdisciplinary (Curriculum and Instruction and other disciplines) (See School of Graduate Studies http://sgs.umkc.edu/)

Teachers are committed to students and their learning. (Diversity, Core Concepts)
- Teachers recognize individual differences in their students and adjust their practice accordingly.
- Teachers have an understanding of how students develop and learn.
- Teachers treat students equitably.
- Teachers’ mission extends beyond understanding the cognitive capacity of their students.

Teachers know the subjects they teach (Curriculum Design, Content Knowledge) and how to teach those subjects to students (Pedagogy, Technology in Instruction).
- Teachers appreciate how knowledge in their subjects is created, organized and linked to other disciplines.
- Teachers expose their students to different modes of critical thinking.
- Teachers teach students to think analytically about content.
- Teachers command specialized knowledge of how to convey a subject to students.
- Teachers generate multiple paths to knowledge.
• Teachers have knowledge of available curricular resources including technological innovations.

Teachers are responsible for managing and monitoring student learning. (Assessment, Pedagogy)
• Teachers call on multiple methods to meet their goals.
• Teachers orchestrate learning in small and large group settings.
• Teachers place a premium on student engagement.
• Teachers regularly assess student progress.
• Teachers are mindful of their principle objectives.

Teachers think systematically about their practice and learn from experiences. (Research, Reflection)
• Teachers are continually making difficult choices that test their judgment.
• Teachers seek the advice of others and draw on education research and scholarship to improve their practice.
• Teachers understand the importance of educational research, its relevance to daily classroom practice and justify practice based on sound research outcomes.

Teachers are members of learning communities. (Professional Activism)
• Teachers contribute to school effectiveness by collaborating with other professionals.
• Teachers work collaboratively with parents.
• Teachers take advantage of community resources.

The National Council for Accreditation of Teacher Education, the accreditation body for the School of Education, has standards which require that candidates demonstrate the knowledge, skills and professional dispositions necessary for educators and educational leaders. The academic assessment of a student in the School of Education is a significant event for both the student and the faculty. It represents an evaluation by the faculty of student competency in academic skills and/or in other critical areas of professional conduct.

At any point during the student's matriculation through the program, the faculty retains the right to review any student behavior that may affect the welfare of the student or others. Such a review may result in the student being encouraged to receive additional support and assistance or possibly not being permitted to continue in the program. The following are offered as examples of behaviors that are the basis for evaluation of student progress:

1. Failure to maintain academic standards (e.g., 3.0 GPA).
2. Academic dishonesty (e.g., cheating, plagiarism).
3. Unethical or unprofessional behavior which could include but is not limited to, dishonesty; lack of collegiality, cooperation, or responsibility; inability to handle stress; abrasiveness; lack of timeliness; to name a few.
4. Behaviors that obstruct the leadership process and/or threaten the welfare of the student or others (e.g., verbal abuse, physical abuse, active substance abuse).
5. Failure to comply with established University or Program timetables, requirements, and policies (e.g., failure to meet time limits for completion of degree program).
6. Violation of federal, state, or local laws on UMKC premises or at UMKC sponsored or supervised activities.
7. Consideration may be given to other circumstances as they arise.

Procedures for Student Evaluation
To protect student interests as well as the rights of faculty to uphold the academic and professional standards of the academic program, the following steps may be taken as part of the academic review process.

1. If a concern about student behavior develops within the context of a course or at a field experience, the course instructor and/or field supervisor documents concerns and notifies the student’s faculty adviser. The instructor meets with the student (and the faculty adviser if needed) to outline deficiencies and establish a remedial course of action (if appropriate). Chronological time frames may be established to evaluate performance. Others (i.e., program faculty or professionals and agents outside the university) who have university-related concerns about a student outside of the context of a course may communicate their concerns directly to the appropriate division chair or the Dean’s Office. (Such discussions are governed by the Family Educational Rights and Privacy Act.)

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7. The decision of the Graduate Dean, as the Chancellor’s designated representative in such cases, is final and will be communicated in writing to:

1. The student
2. The graduate faculty review group(s)
3. The academic dean
4. The registrar

Faculty in Curriculum and Instruction have a wide variety of experiences and interests. Several faculty members conduct research on achievement and pedagogy for at-risk students, direct grant programs and work intensely and collaboratively in school settings. Faculty emphasize the importance of technology in the classroom and incorporate this content into their work. They are active in national and regional professional associations, in which many hold offices. Faculty in Curriculum and Instruction strive to facilitate high levels of professional development and leadership skills and help their students achieve their educational goals.

General Information on Master of Arts Degrees

Requirements for the Master of Arts
Requirements for a master's degree include a minimum of 30 credit hours but vary according to the major and emphasis area. Regardless of program length, at least 60 percent of the coursework on the degree program must be numbered 5500 or above. At least 3.0 GPA must be maintained, with no grade lower than a C earned in any 5500-level course. A maximum of 20 percent of coursework numbered 5500 or above on the master's program may have grades of C. Any courses on the 300 and 400 level to be included in a master of arts program must be taken for graduate credit and only by arrangement with the adviser. No grade lower than B- may be earned in any 300- or 400-level course to be used toward a graduate degree.

As soon as possible after regular admission to graduate study, the student should meet with a faculty adviser to develop a program of study. This program must be filed with the Education Student Services Office before the end of the second semester enrolled in the program. Program revisions may be requested later but also must be approved by the student's adviser and the dean's representative.

Twenty percent of resident graduate coursework may be transferred from other accredited universities' graduate programs. A maximum of 49 percent of acceptable graduate work (no grade below B) may be transferred from other campuses of the University of Missouri. Credits are transferred only with the recommendation of the adviser and the consent of the dean's representative in the School of Education. Transfer credit must not be more than seven years old at the time of program completion.

Transfer credit may be allowed for correspondence courses, provided the credits meet the above criteria. A maximum of six semester hours of continuing education courses that have been taken for graduate credit (workshops, special topics) may be included on a master's program. Students
must provide a letter from the transfer institution clarifying the grade equivalent for transfer work posted as "credit" or "pass."

For regular courses taken through continuing education at UMKC to apply on degree programs, the student must be admitted to graduate study and have an approved program on file, including the continuing education courses.

Credit more than seven years old at the time of degree completion must be validated. To validate a course, the student must meet with the instructor of the current equivalent course to devise a plan in which the student's current knowledge of the coursework can be assessed. Faculty may ask the student to write a paper, review current literature, or take examinations to determine whether the student's knowledge of the subject is acceptable. A maximum of 30 percent of the student's program of study may be validated under this procedure. All validation must be completed prior to the completion of the final semester of enrollment for the degree.

A thesis is not required for the master of arts degree, although the option for a thesis is available. A final integrating experience or independent or group research study may be required of those not selecting the thesis option.

Requirements for Retention
Students must:
Meet all admission requirements.
File a planned program of study in consultation with a faculty adviser and have it approved by the dean's representative in the Education Student Services Office.
Complete all coursework listed on the approved program of study.
Maintain an acceptable graduate GPA with no grades below B- (3.0) in 300- or 400-level courses, no grades below C (2.0) in any 5500-level course, at least 80 percent of the degree program completed with grades of A or B, and a 3.0 average maintained in all graduate coursework, regardless of whether the courses are on the actual degree program.
Apply for the degree (graduation) by the posted deadline during the final term of enrollment.
Enroll in at least one credit hour during the term they intend to graduate.

Master of Arts: Curriculum and Instruction
The master of arts in Curriculum and Instruction is a degree sought by teachers and others who wish to enhance their knowledge base for application in the classroom and to increase Prek-12 student learning. There are seven emphasis areas from which to choose:

- General
- Early Childhood
- Elementary
- Subject Matter (Art, English, Math, Science, Social Studies)
- Multicultural Education
- Teaching English to Speakers of Other Languages
Requirements for Admission

Students admitted to School of Education graduate programs are governed by School of Education requirements and those of the School of Graduate Studies. Students seeking advanced degrees also should consult the School of Graduate Studies section for regulations applicable to all graduate students.

Students with a baccalaureate degree and teacher's certification from a school of education may apply for all graduate programs or may enter with a baccalaureate degree (including a departmental major in a liberal arts program). Work toward a master of arts degree can begin during any semester.

Criteria for admission include an appropriate GPA and an overall record of achievement. A baccalaureate degree with a 3.0 GPA or above (on a 4.00 scale), or a master's degree or other post-baccalaureate degree from an institution accredited by a regional accrediting agency is required for regular admission to the School of Education at the graduate level. Applicants who do not possess a post-baccalaureate degree and whose undergraduate GPA is between 2.50 and 2.99 are eligible for conditional admission and are required to complete the requirements described below. Applicants who do not meet the necessary admissions requirements may appeal to the Division Chair.

Conditional applicants must meet with a faculty adviser and are required to take four courses prescribed by the division for the degree in which the student intends to pursue. Applicants must achieve a grade of B or better in each of the courses (a course may be repeated only once). Two of these courses must be at the 5500 level.

Students who successfully complete the conditional period are eligible for regular admission to the School of Education at the master's level. Only when conditional students are reclassified as degree-seeking may they file a program of study.

Students who do not successfully complete the conditional period will be permanently reclassified to post-bachelor status and will be allowed enrollment for undergraduate credit only. Post-bachelor students may not enroll in classes numbered 5500 or above.

Degree Requirements

There is an 18-credit-hour core to all programs. This core includes coursework in the humanistic, behavioral, research, assessment and multicultural and urban focus foundation areas. In addition to these core courses, students complete 18 additional hours in their emphasis area.
Core Courses (meet with adviser before enrolling)

<table>
<thead>
<tr>
<th>Curriculum Theory/Design (one course required)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-C&amp;I 5505 Introduction to Curr. Theory</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5506 Curriculum Design</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5591 Curr. &amp; Instr. for the 21st Century</td>
<td>3</td>
</tr>
</tbody>
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Humanistic Studies (one course required)

| EDUC-UL 5525 Cultural Foundations of Education | 3     |
| EDUC-UL 5526 Philosophical Foundations of Education | 3     |
| EDUC-UL 5527 Historical Foundations of Education | 3     |

Behavioral Studies (one course required)

| EDUC-R&P 5502 Advanced Educational Psychology | 3     |
| EDUC-R&P 5510 Child Behavior and Development  | 3     |
| EDUC-R&P 5512 Adolescent Development & the School | 3    |
| EDUC-R&P 5513 Human Development Across the Lifespan | 3     |

Research (one course required)

| EDUC-R&P 5505 Statistical Methods I | 3     |
| EDUC-R&P 5508 Principles and Methods of Research | 3     |
| EDUC-C&I 5544 Quantitative Research in English as a Second Language | 3     |

Assessment (one course required)

| EDUC-C&I 5554 Assessment in Science Education | 3     |
| EDUC-C&I 5596 Classroom Assessment            | 3     |
| EDUC-SP 5508 Evaluation of Abilities and Achievement in Special Education | 3     |
| TCH-ED 442 Classroom Observation, Assessment, & Screening in Early Childhood Classrooms | 3     |
| EDUC-R&P 5522 Principles and Methods of Testing | 3     |

Multicultural and Urban Focus (one course required)

| EDUC-C&I 5560 Teaching & Learning in an Urban Classroom | 3     |
| EDUC-C&I 5561 Teaching Diverse Populations in Today's Classrooms | 3     |

Culminating Experience (one course required)

| EDUC-C&I 5575 Internship                      | 3     |
| EDUC-C&I 5595 Action Research                | 3     |

Total Hours Required 36
The general option is the most flexible and allows students to create a program to meet their desire to become an accomplished teacher. This degree may be pursued concurrently with teacher certification. Additional coursework is required for certification. In addition to the core courses, students take coursework related to their educational role and supporting coursework in curriculum and instruction.

**Courses Related to the Student's Educational Role**

Twelve credit hours of approved coursework may be taken in any college or school of the University. They should form a coherent body of work related to the student's educational goals.

**Supporting Courses**

Six credit hours of coursework offered by the Division of Curriculum and Instructional Leadership are required.

**Total Hours Required 36**

The following courses are required in addition to the core courses listed. The early childhood emphasis is for those who hold elementary or early childhood teacher certification, or for those who are interested in the field of early care and education. The master's degree alone does not lead to certification in early childhood. Additional courses are required to obtain certification to teach early childhood education. For current program plan, go to http://education.umkc.edu/programs/view/10 and check on Early Childhood.

<table>
<thead>
<tr>
<th>Early Childhood Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Fifteen hours, including one practicum course, are required)</td>
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<tr>
<td>TCH-ED 440 Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>TCH-ED 442 Observation, Assessment and Screening</td>
<td>3</td>
</tr>
<tr>
<td>TCH-ED 450 Integrating Early Childhood Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>TCH-ED 451 Child Guidance in the Classroom</td>
<td>3</td>
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<tr>
<td>TCH-ED 452 Family &amp; Program Relations</td>
<td>4</td>
</tr>
<tr>
<td>TCH-ED 453 Learning from Parents</td>
<td>2</td>
</tr>
<tr>
<td>TCH-ED 454 Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5576 Administration of Early Childhood Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5577 Early Childhood Special Education Methods</td>
<td>3</td>
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<tr>
<td>EDUC-C&amp;I 5578 Play and the Early Childhood Environment</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5579 History, Theory and Issues in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5580 Curriculum for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5583 Supervision in Early Childhood Education</td>
<td>3</td>
</tr>
</tbody>
</table>
Culminating Experience (two three-hour courses)
An approved special project, internship or thesis is required to integrate academic work.

EDUC-C&I 5575 Internship in Early Childhood Education 3
EDUC-C&I 5584 Individual Studies in Early Childhood Education or Action Research 3

Total Hours Required 36

The following courses are required in addition to the core courses listed. This emphasis is for elementary teachers or those teachers who are interested in gaining perspective on elementary strategies. It does not lead to elementary certification.

Curriculum in Basic Content
Hours
(four courses required)
EDUC-C&I 5504 Social Studies Curriculum 3
EDUC-C&I 5506 Curriculum Design 3
EDUC-C&I 5522 Language Arts in the Elementary School 3
EDUC-C&I 5523 Advanced Literature for Children 3
EDUC-C&I 5531 Diagnosis and Remediation of Math Learning Problems 3
EDUC-C&I 5553 Curriculum and Instruction in Science 3

Assessment (one course required)
TCH-ED 5442 Classroom Observation 3
EDUC-R&P 5522 Principles of Testing 3
EDUC-C&I 5596 Classroom Assessment 3
EDUC-R&P 5510 Child Development 3

Curriculum (one course required)
EDUC-C&I 5505 Introduction to Curriculum Theory 3
EDUC-C&I 5506 Curriculum Design 3
EDUC-C&I 5591 Curriculum & Instruction of the 21st Century 3

Multicultural and Urban Focus (one course required)
EDUC-C&I 5560 Teaching & Learning in an Urban Classroom 3
EDUC-C&I 5561 Teaching Diverse Populations in Today's Classrooms 3
EDUC-C&I 5562 Teaching for Equity and Social Justice 3
EDUC-C&I 5563 Multicultural Perspectives in Education 3
Research (one course required)
- EDUC-R&P 5505 Statistical Methods 3
- EDUC-R&P 5508 Principles & Methods of Research 3

Culminating Experiences
- EDUC-SP 5516 Philosophical and Family Issues in Special Education 3
- EDUC-C&I 5595 Action Research for Practitioners 6

Total Hours Required 36

The following courses are required in addition to the core courses listed.

Curriculum in the Designated Subject

<table>
<thead>
<tr>
<th>Matter Area (one course required)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-C&amp;I 5504 Social Studies Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5520 English Curriculum in the Middle and High School</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5522 Language Arts in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5539 Mathematics Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5551 Science Curriculum in the Middle and High School</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5566 Specialized Secondary Curriculum in Social Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Subject Matter Concentration
Nine hours of coursework related to the student’s teaching area are required. The courses would typically be taken in a department of the College of Arts and Sciences, the School of Biological Sciences or be subject-related courses in the School of Education.

Secondary Art
- EDUC-C&I 5513 Effective Communication in the Classroom 3
- EDUC-C&I 5515 Integrated Arts as a Model for Classroom Instruction 3
- EDUC-C&I 5523 Advanced Literature for Children 3
- EDUC-SP 5516 Philosophical and Family Issues in Special Education 3

Coursework in graduate art history 3
Coursework in graduate studio art 3

Secondary English
- EDUC 414 English Language Study 3
- EDUC 440 Literature for Adolescents 3
- EDUC-C&I 5520 Specialized Secondary School Curriculum in English 3

Coursework related to your area of specialization, typically English courses 6

Elective coursework in Curriculum and Instructional Leadership (EDCI) 3

Secondary Mathematics
EDUC-C&I 5511  Developing Multidisciplinary Problem Solving Skills 3
EDUC-C&I 5536  Specialized Secondary School Curriculum Mathematics 3
EDUC-C&I 5539  Mathematics Curriculum Development 3
Coursework related to your area of specialization, typically math courses 6
Elective coursework in Curriculum and Instructional Leadership (EDCI) 3

Secondary Natural Science
EDUC-C&I 5551  Science Curriculum in the Middle and High School 3
EDUC-C&I 5553  Curriculum and Instruction in Science 3
Coursework related to your area of specialization, typically science courses 9
Elective coursework in Curriculum and Instructional Leadership (EDCI) 3

Secondary Social Studies
EDUC-C&I 5504  Social Studies the Schools 3
EDUC-C&I 5506  Curriculum Design 3
-or-
EDUC-C&I 5591  Curriculum and Instruction for the 21st Century 3
Coursework related to your area of specialization, typically history courses 9
Coursework with Multicultural & Urban Focus 3

Total Hours Required 36
This emphasis is for teachers or practitioners who are interested in developing competency for multicultural teaching. Students will have the option of selecting a focus area in Cultural Diversity, Urban Teaching and Working with Limited English Proficient Learners. The program does not lead to teacher certification.

The following courses are required in addition to the core courses listed:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-C&amp;I 5548  English as a Second Language in Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5560  Teaching and Learning in Urban Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5561  Teaching Diverse Populations in Today's Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5562  Multicultural Perspectives in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5563  Teaching for Equity and Social Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses must be approved by a faculty adviser.

**Total Hours Required 36**

This program leads to a master's degree in teaching English to speakers of other languages. Students may take the degree program for personal enrichment and for use outside of public education.

The following courses are required in addition to the core courses listed:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-C&amp;I 5545  Linguistics for ESOL Teachers</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5546  Intercultural communication</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5547  Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5548  English as a Second Language in Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5549  Practicum in English as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td>FRN-LNG 494   Methods of Teaching a Foreign Language</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses must be approved by a faculty adviser.
Master of Arts: Reading Education
The Division of Curriculum and Instructional Leadership offers a program of study leading to the Master of Arts Degree in Reading Education. A reading teacher certification program is also available to those who hold a prior teaching certificate for public schools and have a minimum of two years teaching experience.

Objectives for the master of arts vary according to candidates' career objectives. In general, candidates should expect:

1. To develop competencies in:
   - Reading instruction for elementary and/or secondary, college and adult students.
   - Individual assessment and instructional intervention strategies for diverse learners and struggling readers.
   - Knowledge of the strategies and techniques used in reading research, and experience in reading and reporting such research.
   - Performing the duties of reading specialist and literacy coach.

2. To meet requirements for certification as a Special Reading Teacher grades K-12. (Initial teaching certification at the elementary, middle or secondary level required.)

3. To meet all professional standards specified by the Professional Standards and Ethics Committee of the International Reading Association.

The 36-credit-hour program of study consists of the reading requirements, humanistic and behavioral studies requirements, and electives.

Reading Requirements for the Major Area
Note: Reading courses are being revised and renumbered. The new designation EDRD will be in place beginning Spring 2010.

A minimum of 21 credit hours of reading coursework is required and must include:

- EDRD 5502 Early Literacy and Language Development
- EDRD 439 Content Area Reading and Language Development
- EDRD 5501 Teaching of Reading
- EDRD 5511 Reading Assessment and Evaluation
- EDRD 5510 Classroom Based Literacy Assessment and Intervention
- EDRD 5520 Practicum in Reading
- EDRD 5515 Seminar in Reading

Humanistic Studies
A minimum of 3 hours must include one of the following courses:

- EDUC-UL 5525 Cultural Foundations of Education
- EDUC-UL 5526 Philosophical Foundations of Education
- EDUC-UL 5527 Historical Foundations of Education

Behavioral Studies
A minimum of 3 hours must include one of the following courses:

- EDUC-R&P 5502 Advanced Educational Psychology
- EDUC-R&P 5510 Child Behavior and Development
- EDUC-R&P 5512 Adolescent Development
- EDUC-R&P 5513 Life Span Human Development

Multicultural and Urban Focus
A minimum of 3 hours must include one of the following courses:

- EDUC-C&I 5560 Teaching & Learning in an Urban Classroom
- EDUC-C&I 5561 Teaching Diverse Populations in Today's Classrooms
- EDUC-C&I 5562 Teaching for Equity and Social Justice
- EDUC-C&I 5563 Multicultural Perspectives in Education
- EDUC-SP 5516 Philosophical and Family Issues in Special Education

Electives

Six credit hours of coursework related to the major area of reading/literacy are needed to satisfy this requirement. This coursework must be approved by the student's faculty adviser. Reading electives include the following:

- EDRD 5530 Reading Instruction for K-12 English Language Learners
- EDRD 5541 Teaching Reading Improvement: Secondary, College Adult Level
- EDRD 5601 Organizing and Guiding the Reading Program
- EDRD 5650 Dyslexia and Related Learning Disorders

Final Examination

Students must pass a written examination covering their reading coursework.

**Master of Arts: Special Education**

The master of arts in special education is a degree sought by teachers and others who wish to enhance their knowledge and skills in working with children and adolescents with exceptional learning needs. The Division of Curriculum and Instructional Leadership offers a program of study leading to the degree of master of arts in special education. The focus of the master's degree is in **Mild-Moderate/Cross-Categorical (MM/CC) Disabilities**. The program prepares educators to teach students, to serve as advocates for children and their families, and to work collaboratively with colleagues in K-12 educational settings, including public and charter schools, and private schools.

**Admission Requirements**

Candidates entering the master's program with emphasis in MM/CC disabilities must hold a baccalaureate degree and have an overall 3.0 GPA or higher on a 4.0 scale and successfully complete an interview with program faculty. Official admission to the University of Missouri-Kansas City graduate school is required. Admission deadlines are February 1st for summer and fall admission and October 1st for spring admission.

Candidates who do not hold initial teaching certification in elementary or secondary education must pass the College Basic Academic Subjects Examination (CBASE), with a score of 235 or greater at admission. Informational packets for the CBASE can be obtained from Student Services in the School of Education.

**Program Requirements**

Program requirements vary depending on the combination of degree and certification desired. Three program options provide opportunities for candidates to earn a master's degree with or without special education teaching certification.
Program Option 1: Initial Certification plus Master's Degree
Program Option 2: Master's Degree with Special Education Endorsement for Those with Previous Certification
Program Option 3: Master's Degree Only
For specific degree requirements, contact the Division of Curriculum and Instructional Leadership at (816) 235-2245 or e-mail education@umkc.edu.

Certification
Courses required for certification in Missouri and Kansas are typically completed as part of the MM/CC program. Arrangements can be made for obtaining temporary certification in MM/CC in Missouri only; however, employment in the field is required. Because the requirements for certification vary from state to state, it is important to plan a course of study carefully with a special education faculty adviser during the first semester of coursework at UMKC.

General Information on Educational Specialist Degrees
The goal of the educational specialist degree is to develop personnel who are highly competent practitioners/specialists in specific fields of education. The program of study will place emphasis on the extension of the students' abilities to apply theory, methodology and techniques to practical problems related to the individual's field. The breadth of studies will be consistent with the guidelines suggested by the appropriate professional organization. Graduates are expected to be competent translators of practices and research.

The educational specialist degree can be earned in counseling and guidance, educational administration, reading education, or curriculum and instruction.

Requirements for Admission
Students are eligible for consideration for admission to the Ed.S. degree program in the School of Education when they have met at least one of the following requirements:

- Students must be eligible for regular admission to the School of Education at the graduate level (undergraduate GPA must be at least 3.0 on a 4.0 scale); if applicants have earned graduate credit, their graduate GPA must be at least 3.0.
- The completion of a master's degree from an accredited institution of higher education and a cumulative graduate GPA of at least 3.0.

Applicants who have met one of the above requirements for admission to the School of Education at the Ed.S. level must also meet the divisional admission requirements for the specific degree program (educational administration, counseling and guidance, curriculum and instruction, or reading education). Consult the section of the catalog outlining the requirements of the divisions.

All educational specialist degree-seeking students are governed both by School of Education requirements and those of the School of Graduate Studies.

Program Requirements
A minimum of 60 hours of approved graduate work beyond the bachelor's degree is required for the educational specialist degree, with at least 60 percent of the courses numbered 5500 and
above. Any courses on the 300 and 400 level included in the Ed.S. program of study must be accepted by the adviser and taken for graduate credit.

As soon as possible after admission to graduate study, students should seek to meet with a faculty member in the major to plan a program of study. This program must be filed in the Education Student Services Office and approved by the dean's representative when students still have at least 18 hours of coursework beyond the master's degree to complete. A majority of new coursework applied to any graduate degree to be completed at UMKC must be taken at UMKC. Transfer credit not included in a master's degree must not be more than 7 years old at the time of degree completion or graduation.

Transfer credit may be allowed for correspondence courses, provided the credits meet the criteria for graduate coursework. A maximum of 6 credit hours of continuing education credit (workshops, special topics) taken for graduate credit may be included on an Ed.S. program. UMKC credit more than seven years old at the time of degree completion that has not been included on a master's degree is not applicable to an Ed.S. degree unless validated to the satisfaction of the School of Education and the School of Graduate Studies. A maximum of 30 percent of coursework on the student's program of study may be validated under this procedure. All validation must be completed by the end of the final semester of enrollment.

The coursework is divided into the following study areas:

Specialization (21-42 hours)
The specialization is defined as a body of coursework associated with the area of concentration or major. Such courses might deal with the theory, research and methodology of the field.

Supporting Area(s) (9-15 hours each)
In addition to specific courses in a field of study, there are those courses which expand the competence of the specialist. These supporting areas might include study in one or two related areas, or study might be an intensive development of specific skills within the field.

Culminating Experience (3-12 hours)
All students should be able to demonstrate an ability to perform satisfactorily in situations approximating the intended role or specialization. While such experience may be included in regular coursework, at least 3 hours of supervised practicum, internship or field experience should be accomplished where the practice is the focus of the course.

Humanistic and Behavioral Studies (6-12 hours)
The success of a specialist may also depend on a broader understanding and interpretation of the concepts related to the problems and practices of the field, as revealed by study in humanistic and behavioral sciences. Courses or seminars in educational history, philosophy, psychology or sociology, or other appropriate courses, might be included in this area.

Residency
Enrollment as a full-time graduate student during one semester (5 credit hours during summer sessions, 9 credit hours during fall and spring semesters) is required for the educational specialist degree.
Final Examination
Students are required to pass a final examination in the major field or an oral examination upon the completion of the practicum or internship for the educational specialist degree.

Requirements for Retention
Students should assume responsibility for the following steps:
1. Complete all admission requirements.
2. With the faculty adviser, establish a program of study and have it approved by the dean's representative.
3. Complete all courses listed on the program of study.
4. Maintain an acceptable GPA (Grades below B- in 300- or 400-level courses taken for graduate credit will not be accepted on the program of study. No grade lower than a C in any 5500-level course is acceptable. A minimum of 80 percent of the program must be completed with grades of A or B. Additionally, students must maintain a 3.0 (B) average in all graduate coursework, regardless of whether the courses are on the actual program of study.
5. Apply for the degree (graduation) by the posted deadline during their final term of enrollment. Students are required to be enrolled in at least one credit hour during the term the degree requirements are to be completed.
General Information on Doctoral Degrees
The School of Education offers a Ph.D. degree program in Counseling Psychology that is accredited by the American Psychological Association since 1985. The School also participates, through the School of Graduate Studies, in the Interdisciplinary Ph.D. program. Two disciplines, curriculum & instruction and educational leadership, policy and foundations are offered through the School of Education. Students may select one or both of those disciplines in addition to disciplines offered through other academic units across campus. All but a select few Ph.D. programs at UMKC are interdisciplinary. Students desiring to study at the doctoral level in curriculum & instruction and/or educational leadership, policy and foundations in education (which includes the foundation areas of educational theory and educational administration) must apply to the School of Graduate Studies. Detailed information on the general and discipline-specific admission requirements may be found in the School of Graduate Studies section of the catalog.

Educational Administration, Ed.D.
The Doctorate of Education Degree (Ed.D.) in Educational Administration has been designed to meet the needs of aspiring administrators in urban and metropolitan school districts and colleges/universities. There are two focus areas within the Ed.D. program: P-12 school administration and higher education administration.

Coordinators:
Loyce Caruthers , (816) 235-1044, caruthersl@umkc.edu (P-12)
Bonita Butner(816) 235-2325, butnerb@umkc.edu (Higher Education)

Focus in P-12 Administration
The Doctorate of Education in P-12 Educational Administration program is designed to expand the content competencies and applied leadership skills of candidates in educational leadership careers in elementary, middle, and secondary school settings, as well as in central office administration. Curriculum focuses on current and future educational challenges to enhance the knowledge and skill development of public school leaders in their positions, incorporating strategic planning, collaborative problem solving, interpersonal and inter-group functioning, technological proficiency, and effective communication.

Criteria for Admission to P-12 focus:
1. Completed UMKC application and Educational Leadership, Policy and Foundations supplemental application.
2. Official transcripts from each college attended.
3. Master's degree or Educational Specialist degree or equivalent from an accredited institution with G.P.A. of at least 3.65 in Education Administration. (Master's in other fields may be provisionally accepted.)
4. Graduate Record Examination within the last five years: verbal, quantitative, and analytical writing.
5. Four professional or academic letters of reference.
6. An autobiographical statement that includes your professional goals and how the doctoral degree will help you in achieving these goals, and a description of some of your leadership accomplishments.
7. A writing sample, which gives evidence of your writing ability. The sample may be a previous course paper, a chapter from thesis, a published article, etc. Send copies for documents will not be returned.
8. Successful completion of three hours or equivalent of Statistical Methods 1 (EDRP 5505) and three hours or equivalent of Principles and Methods of Research (EDRP 5508) with a grade of B or higher.

Curriculum
The Doctorate of Education program will consist of 33 hours of inter-disciplinary course work and a 9 hour Applied Research Dissertation Project. The Doctoral Applied Research Study will include the identification of a study to be conducted that is grounded in educational policy in the public arena. A theoretical construct for the study will be developed including a research design, a review of the literature, and a presentation of the findings of the study in a public setting as well as to the doctoral committee. It is expected that students will complete this program during a four year period of time.

Focus in Higher Education Administration
The doctoral program with a focus in Higher Education Administration is designed to prepare administrative leaders for positions in community colleges and four-year colleges and universities. The program may also be appropriate for individuals working in government agencies and business and industry. Therefore, students may come to the program from a variety of fields, backgrounds, and types of higher education institutions.

Criteria for Admission to Higher Education focus:
Admission to the Higher Education doctoral program is a separate procedure from admission to the Graduate School and is based on successful acceptance into the University of Missouri-Kansas City graduate School and the Higher Education program. This requires submission of the following:

1. Completed UMKC application and Higher Education supplemental application.
2. Official transcripts from each college attended.
3. Graduate Record Exam: quantitative, verbal and writing portion
4. A letter of intent including a brief statement of the reason for pursuing a doctoral degree in Higher Education and a brief discussion about the match between the applicant's needs and the program offering.
5. A vita or resume providing a summary of leadership activities, work experiences, and scholarly activity.
6. Three letters of recommendation (on forms provided in application packet) are required. One letter may be from a personal reference; two letters must be professional references.
7. An interview will be scheduled with at least two faculty members as the final step in the admission process. Interview topics will be wide-ranging, including personal goals and objectives, current issues in education, and successful college experiences. The interview is designed to acquire information concerning the applicant's oral skills and critical thinking skills. The applicant will also have the opportunity to garner additional information about the program.
Curriculum
The program consists of 90 semester hours beyond the baccalaureate degree inclusive of the dissertation. The Ed.D. is an applied degree designed for the advanced student who wishes to achieve a superior level of competency in his/her professional field with emphasis on practice and leadership in an urban setting. The degree requires students to demonstrate proficiency in independent research in higher education and make original contributions to the body of knowledge related to higher education. The program is structured on a cohort model with admission every three years. Admitted students must agree to take courses as prescribed in order to complete all courses in a three year timeframe.
Counseling Psychology, Ph.D.
The Ph.D. degree in counseling psychology has been fully accredited by the American Psychological Association since 1985. The counseling psychology program emphasizes multicultural and individual diversity within a scientist-practitioner model. Consistent with the University's urban/metropolitan mission, the diverse Counseling Psychology faculty is committed to educating future counseling psychologists to improve the welfare of individuals and communities through scholarship and applied interventions.

Student Learning Outcomes
The program faculty encourages students to develop primary identification with the core values of counseling psychology. These values emphasize:
- Assets, strengths and positive mental health regardless of level of functioning
- Respect for cultural and individual diversity, including race, ethnicity, religion/spirituality, nationality, age, socioeconomic status, sexual orientation, ability, etc.
- Developmental framework to human growth and development
- Relatively brief counseling interventions
- Person-environment interactions
- Prevention
- Educational/vocational development

Program graduates apply these values in a variety of settings, including two and four-year colleges and universities, university counseling centers, veteran affairs facilities, hospitals, community mental health centers, and private practice. Many also become professional consultants, writers, and scholars.

Program goals are:
**Goal 1:** Graduates of our program develop a professional identity as counseling psychologists.

**Goal 2:** Graduates of our program understand the importance and complexity of cultural and individual diversity. They acquire the competence to apply knowledge of diversity in all areas of science and practice.

**Goal 3:** Graduates of our program understand counseling psychology as a scientific discipline. They are able to create, evaluate, and ethically contribute to the empirical knowledge base of psychological practice and theory.

**Goal 4:** Graduates of our program are trained to meet the varied needs of their diverse clients using ethical interventions based on counseling theory and informed by science. Graduates are able to effectively use and provide supervision and consultation.

Our program emphasizes a scientist-practitioner model in which students are informed about and contribute to scientific knowledge and are committed to life-long learning. Student practice activities are informed by research and a scientific attitude, and all professional activities are approached and critically evaluated with an ethical, multicultural, and professional mind-set. Students are also trained to work effectively and ethically with diverse clients, using
interventions based on theory and informed by science. Our developmental model provides early and progressive training in both research and practice activity, culminating in professionals who can design, conduct, and evaluate research relevant to the field of psychology.

More information about the program can be found at http://education.umkc.edu/programs/view/18

Admission Criteria
The program accepts bachelor's-level and master's-level applicants. Approximately six to ten students are admitted to the Counseling Psychology program each year.

Recommended minimum for bachelor's level applicants:

- The completion of a bachelor's degree with a major in psychology.
- Official GRE scores obtained within the last five years.
- An overall undergraduate 3.0 GPA covering all college work taken prior to the bachelor's degree, or 3.25 for the major courses or the last 60 credits of the bachelor's degree.
- Additional requirements may apply for international students.

Recommended minimum for master's level applicants:

- The completion of a master's degree in counseling or a closely related area.
- Official GRE scores obtained within the last five years.
- Graduate GPA of 3.5 or above.
- Additional requirements may apply for international students.

Applicants will be evaluated using the following dimensions: academic potential, research potential, research interest, interpersonal characteristics, contribution to program diversity, commitment to multiculturalism, professional goals and interest, understanding of the profession of counseling psychology.

Alternative Criteria: students who do not meet the regular recommended criteria may be admitted under alternative criteria provided there is good reason to believe that the regular criteria do not adequately manifest the student's potential to do quality work in the program. The Counseling Psychology faculty reserves the right to require those who are admitted under the alternative criteria to take some background core courses in psychology before or during the first year of their doctoral training in the areas of general psychology, theories of personality, tests and measurement, abnormal psychology, experimental psychology, and introductory statistics. This decision will be made by the admission committee and the student's assigned advisor, and communicated to the student before he/she starts the program.

The admission committee will consist of three or more faculty members and one or more student members. The student member must be in his or her final year of the academic program (i.e., doing the pre-doctoral internship in the subsequent academic year). Using the above criteria, the admission committee will select approximately thirty applicants to be offered interviews. Campus interview will be recommended, but not required. Phone interviews are offered for those
who cannot make the campus interview on our Interview Day. Admission will be offered to a small number of the applicants interviewed. In addition, the committee selects a list of those who were interviewed to serve as alternates. Candidates will be notified of the admissions decisions no later than April 1st. Candidates are required to act on the notifications by April 15th. If a first-round candidate does not accept, an alternate for the position will be selected from the list of the remaining candidates. Alternates will have 7 days to act on the notification, but if the offer is made on or after April 15, they will have 3 days to give a definite response. In making decisions, the Counseling Psychology Program at UMKC does not discriminate against anyone on the basis of race, gender, ethnicity, sexual orientation, age, religion, nationality, or physical disability and appearance.

**Admission Requirements**

Application packets for the Counseling Psychology Program can be obtained from the program's Web site: [http://education.umkc.edu/cep/PhD/PhDAdmission.html](http://education.umkc.edu/cep/PhD/PhDAdmission.html).

If needed, you may contact the UMKC Office of Admissions either by phone (816) 235-1111, or by e-mail admit@umkc.edu. You may also contact the Counseling Psychology Program at (816) 235-2722.

Applications are accepted only for the fall semester and must be completed and received by January 1. Application materials must be submitted to two separate offices on campus: A. The UMKC Admissions Office, and B. The Counseling Psychology Admissions Committee.

**A. Materials to be sent to the UMKC Admissions Office:**

1. UMKC application for admission (May be completed electronically at [http://www.umkc.edu/admissions](http://www.umkc.edu/admissions)).
2. Application fee (May be completed electronically at [http://www.umkc.edu/admissions](http://www.umkc.edu/admissions)).
3. Official transcripts from all post-secondary institutions.
4. Official Graduate Record Examination (GRE) scores, sent directly from ETS.

**Please submit the UMKC Admissions Office materials to:**

UMKC Office of Admissions
University of Missouri-Kansas City
120 Administrative Center
5100 Rockhill Road
Kansas City, MO 64110-2499

**B. Materials to be sent to Counseling Psychology:**

1. Cover sheet for the Ph.D. in Counseling Psychology (from the Counseling Psychology application packet).
2. Personal statement. Submit a concise (two to three pages) statement concerning some or all of the following:
   - Your self reflection/perception
   - Your professional goals and interests
   - Your research knowledge, experience, and interest
   - Your views on multiculturalism and diversity
3. Curriculum vitae including the following information:
   - Contact information
   - Educational background
   - Relevant clinical, research, and volunteer experiences
   - Honors or awards
   - Membership/leadership in professional organizations
   - Presentations and publications

4. Three applicant evaluations forms (from the Counseling Psychology application packet) with attached letters of recommendation.
   - Raters should address your suitability for professional studies in a mental health service profession.
   - Raters should have knowledge of your interpersonal and intellectual functioning and skills in research, counseling and written and oral communication.
   - Raters should enclose their letters of recommendation along with the provided rating sheet in an envelope, sign their names across the sealed flap of the envelope, and either return to the student or mail directly to the address below.
   - References must be from professional or academic settings.

**Mailing Address**
University of Missouri-Kansas City
ATTN: Counseling Psychology Admissions Committee
215 Education Building
5100 Rockhill Road
Kansas City, MO 64110-2499

*Admission to UMKC or the school of Graduate Studies does not guarantee admission to the Doctor of Philosophy degree program in Counseling Psychology.

**Interdisciplinary, Ph.D.**
Refer to the School of Graduate Studies for more information.
Graduate Certificate - Health Professions Curriculum and Evaluation

The Graduate Certificate in Health Professions Curriculum and Evaluation provides an educational research foundation for teaching and assessment in health professions education. The certificate, which includes six courses (18 credit hours), is based on a mix of both classroom and internet instruction. The Graduate Certificate in Health Professions Curriculum and Evaluation reflects a unique collaboration between the School of Education and the School of Medicine at UMKC, both nationally recognized for their innovation in teaching and learning.

The program seeks to:
- Deliver effective, theory-based instruction in large group, small group, and clinical settings
- Develop skill in educational research as it relates to the quality of instructional practice
- Design evidence-based educational programs and materials with appropriate scope, sequence, and focus for learners
- Understand assessment and to effectively use assessment tools to track student progress and to promote student learning
- Develop skill in program and curriculum development and evaluation in health professions education
- Identify current issues in health professions education and develop skill in monitoring changes in the field

Admission Requirements:
- Applicants must hold a professional degree in a health profession (e.g. MD, DDS, DO, RN, PharmD) and/or a bachelor’s degree. Limited enrollment.
- Applicants must complete the graduate application found at http://www.umkc.edu/admissions/graduate.asp

Submit all university transcripts as well as a one page goal statement, resume or CV, and two letters of recommendation to:

UMKC School of Medicine
Office of Admissions, M1-103
ATTN: Health Professions Curriculum and Evaluation
2411 Holmes Street
Kansas City, MO 64108

Course Requirements:
HPRE 5530: Current Issues in Health Professions Education
EDUC-R&P: Educational Psychology: Focus on Teaching in Higher Education
HPRE 5550: Assessment in Health Professions Education
EDUC-R&P: Instructional Design
EDUC-R&P: Principles and Methods of Research
EDUC-R&P: Program Development and Evaluation

Courses include a mix of classroom and online work. The program may be completed in one year.
For more information, please visit the website: http://www.med.umkc.edu/hpce/
Graduate Certificate in Community College Leadership

Institutions in the state of Missouri, and across the nation, have come to recognize the growing demand for community college leadership and administrator preparation in the coming decades. This 18 credit hour graduate certificate program will provide opportunities for candidates to gain knowledge, skills, and competencies essential to their career and professional development as leaders in higher education settings, specifically in community colleges, in a convenient yet rigorous online environment.

This online certificate program is designed to incorporate skills and competencies put forth by the American Association for Community Colleges (AACC), including a focus on: organizational strategy, resource management, communication, collaboration, community college advocacy, and professionalism.

The certificate can be completed either in conjunction with a graduate degree program or as a free-standing credential. This program is a collaborative effort between the University of Missouri – Kansas City (UMKC) School of Education and the University of Missouri – St. Louis (UMSL) College of Education.

Requirements for Admission:
Applicants for this certificate program must have:
- A completed application for admission
- An undergraduate degree from an accredited institution
- Two letters of recommendation

Curriculum requirements:
The curriculum reflects consideration of the current issues and needs of society, of higher education, and of the student populations served by community colleges and other 2 year institutions.

Required Core Courses (12 hrs)
HigherEd 6430: The Community College (Taught online by UMSL Faculty)
HigherEd 6431: Community College Leadership (Taught online by UMSL Faculty)
EDUC-UL 5559: Current Issues in the Community College (Taught online by UMKC Faculty)
EDUC-UL 5553: Supervision and Management of People (Taught online by UMKC Faculty)

Internship Requirement
EDUC-UL 5571: Internship in Higher Education (Taught online by UMKC)  
This course includes applied experiences in a planned, supervised program that provides evidence of growth by the intern. Seminar accompanies internship experiences. The internship will include planning, research, evaluation, and related professional activities.
Or
HigherEd 6900 Internship (1-10) (Taught by UMSL)
Closely supervised experience in a field under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be
demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities. (3 hrs)

**Elective**

EDUC-UL XXXX Elective (Can be taken from either institution or an approved elective from the student’s home institution) (3 hrs)

**Requirements for Retention:** Program candidates must maintain a minimum grade of “B” in all classes or a GPA of 3.0 on a 4.0 Scale.

**Time Limit for Completion:** The program can be completed in four semesters; however, students must complete the program in three years or less.
**Master of Arts: Counseling and Guidance**

The Counseling and Guidance Program has as its primary purpose the preparation of professional counselors. The master's degree is the first professional degree in counseling. Graduates holding this degree will gain the basic understanding and skills necessary for professional practice as a counselor.

The program currently offers four emphasis areas leading to the M.A. degree: Elementary and Secondary School Counseling, Couples and Family Counseling, Mental Health Counseling and Gerontological Counseling. **Students are not currently being admitted in the General or Substance Abuse Counseling Emphasis areas.**

Those electing the school counseling emphasis will, upon successful completion of the coursework and passing of the Praxis Exam for counseling, be eligible for school counselor certification in Missouri. The other counseling emphases are designed for students who wish to work in a variety of settings other than the public schools. Those earning degrees in counseling become employed in community colleges, four-year colleges, specialized areas in large universities (e.g. career planning and placement), the court system and community-based mental health services. Many students go on for advanced degrees. Students in this program will take all of the coursework needed to be eligible for licensure as a professional counselor in the state of Missouri. Students may also arrange their internship setting placements similar to those in which they plan to work.

**Student Learning Outcomes**

The goal of the master’s program in Counseling and Guidance is to develop competent counseling practitioners who are eligible for licensure or certification in Missouri and Kansas. Graduates demonstrate skills and knowledge in the following areas:

- Theories of counseling
- The counseling relationship
- Human growth and development
- Social and cultural foundations of counseling
- Career development
- Assessment
- Research methods
- Counseling skills
- Professional identity
- Ethical standards and issues
- Psychopathology and Diagnosis
- Program development and management (school counseling emphasis)

**Admissions**

Courses for the master's program in Counseling and Guidance are primarily offered at the Volker campus. Select school counseling courses are offered at the UMKC Northland campus; however, not all courses will be made available at that site. Applications for the program are accepted twice a year: by Sept. 1 to be admitted for the spring semester or by March 1 to be admitted for the fall semester. Application materials must be sent to both the UMKC Office of Admissions
and the Division of Counseling and Educational Psychology. It is suggested that students apply to the University as soon as possible to allow for processing time. Materials sent to the UMKC Admissions Office should be received by the application deadlines; materials sent to the Division of Counseling and Educational Psychology can be postmarked by the application deadlines.

**Admission Criteria:**
- Overall undergraduate 2.75 GPA or better, or 3.0 or better (4.0 scale) in the last 60 semester hours.
- Official GRE scores obtained within the last five years. The GRE requirement can be waived if the applicant is a graduate of a post-bachelor degree program with a cumulative GPA of 3.5 or higher.

**Applying to the Program**

Students who wish to apply to the program will have to submit two separate applications, one to the University (see A. below) and one to the Division of Counseling and Educational Psychology (see B. below).

**A. Send to the UMKC Admission office:**
   - $35 (domestic online) or $50 (international) non-refundable application fee.
   - Official transcripts from all colleges/universities previously attended (in sealed envelope or sent directly from universities).
   - Graduate Record Exam (GRE) (official copy).

**Mailing Address**
University of Missouri-Kansas City
Office of Admissions
120 Administrative Center
5100 Rockhill Road
Kansas City, MO 64110-2499

**B. Send to the Counseling and Guidance office:**
1. M.A. Counseling and Guidance Application
   http://education.umkc.edu/cep/MAinCounselingandGuidance/MAAdmissionsCG.html (detailed instructions available on the application).
   - Three letters of reference (use rating forms in the application packet).
   - Statement defining personal and professional goals.
   - Additional requirements may apply for international students.

**Mailing Address**
University of Missouri-Kansas City
ATTN: Division of Counseling and Educational Psychology
215 Education Building
5100 Rockhill Road
Kansas City, MO 64110-2499
For more specific information about the master's in Counseling and Guidance see http://education.umkc.edu/programs/view/16

**Degree Requirements**
* Note: Only courses with an asterisk may be taken prior to being admitted to the program.
# Note: Course can be taken if officially admitted to a graduate degree program.

<table>
<thead>
<tr>
<th>Required Core Courses (All Emphases)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>(42 credit hours)</em></td>
<td></td>
</tr>
<tr>
<td>* CPCE 5500 Intro. to Professional Counseling</td>
<td>3</td>
</tr>
<tr>
<td># CPCE 5505 Career Development I</td>
<td>3</td>
</tr>
<tr>
<td>* EDUC-R&amp;P 5508 Principles &amp; Methods of Research</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5515 Assessment Methods in Professional Counseling</td>
<td>3</td>
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<tr>
<td>CPCE 5520 Theories of Counseling</td>
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<tr>
<td>CPCE 5530 Methods of Counseling</td>
<td>3</td>
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<tr>
<td>CPCE 5531 Counseling Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5532 or CPCE 5533 Counseling Practicum II or Couples &amp; Family Practicum</td>
<td>3</td>
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<tr>
<td>CPCE 5540 Theories and Methods of Group Counseling</td>
<td>3</td>
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<tr>
<td>CPCE 5551 Counseling in a Pluralistic Society</td>
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<tr>
<td>CPCE 5553 Ethics &amp; Professional Issues in Counseling</td>
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<tr>
<td>CPCE 5575A Internship I</td>
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<td>CPCE 5575B Internship II</td>
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<table>
<thead>
<tr>
<th>Couples and Family Emphasis Area</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CPCE 5503 Psychopathology: Diagnoses &amp; Classification</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5527 Theory/Methods of Sex Counseling</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5541 Couples &amp; Family Therapy</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5542 Theory &amp; Techniques of Family Systems Therapy</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5590CF Seminar in Couples &amp; Family therapy</td>
<td>3</td>
</tr>
<tr>
<td>* EDUC-R&amp;P 5513 Lifespan Human Development</td>
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<tr>
<td>Approved Elective (1)</td>
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<table>
<thead>
<tr>
<th>Mental Health Emphasis</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPCE 5503 Psychopathology: Diagnoses &amp; Classification</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5527 Theory/Methods of Sex Counseling</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5590MH Seminar in Mental Health Counseling</td>
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<td>Course Code</td>
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<tr>
<td>CPCE 5521</td>
<td>Special Counseling Methods - Substance Abuse</td>
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<tr>
<td># EDUC-R&amp;P 5513</td>
<td>Lifespan Human Development</td>
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<td></td>
<td>Approved Electives (2 courses)</td>
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**Gerontological Counseling Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CPCE 5503</td>
<td>Psychopathology: Diagnoses &amp; Classification</td>
<td>3</td>
</tr>
<tr>
<td>A&amp;S 5500</td>
<td>Interdisciplinary Colloquium on Aging</td>
<td>3</td>
</tr>
<tr>
<td>A&amp;S 5501</td>
<td>The Experience of Health in Aging</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 410R</td>
<td>Aging in Contemporary Society</td>
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</tr>
<tr>
<td>CPCE 5525</td>
<td>Counseling the Older Adult</td>
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<tr>
<td>CPCE 5590GC</td>
<td>Seminar in Gerontological Counseling</td>
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</tr>
<tr>
<td></td>
<td>Approved Elective (1)</td>
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</tbody>
</table>

**School Counseling Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CPCE 5502</td>
<td>Foundations of Elementary &amp; Secondary Guidance</td>
<td>3</td>
</tr>
<tr>
<td>TCH-ED 5404</td>
<td>(1) Education of the Exceptional Child and Youth</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5504</td>
<td>School Guidance Programs</td>
<td>3</td>
</tr>
<tr>
<td>CPCE 5550</td>
<td>Organization and Administration of Counseling Programs</td>
<td>3</td>
</tr>
</tbody>
</table>
| * EDUC-R&P 5510 -or- * EDUC-R&P 5512 -or- * EDUC-R&P 5513 | Child Behavior & Development  
(Elementary and K-12 counselors only)  
-or-  
Adolescent Development & the School  
(Secondary and K-12 counselors only)  
-or-  
Lifespan Human Development  
(Elementary, Secondary, and K-12 counselors) | 3     |
| * EDUC-C&I 5512 | (2) Strategies for Effective Classroom Management | 3     |
| * EDUC-C&I 5517 | (2) Teaching Methods & Practices | 3     |

(1) Many people with a teaching certificate already have this course. You may not need to retake it.

(2) Required for those who do not hold a current teaching certificate
Master of Arts: Educational Administration

General Nature of the Program
The master of arts degree in educational administration, accredited by the National Council for Certification of Teacher Education and the Missouri Department of Elementary and Secondary Education, is designed to provide entry-level preparation for students planning careers in school administration.

The course of study includes a sequence of basic and advanced studies and other applied learning experiences. Students have the opportunity to develop understanding and skills through seminar courses, individual study, and the practice of inquiry in addition to study in required courses. The program is designed to support a focus on professional effectiveness and to foster research, evaluation and assessment activities for students. Instruction and mentored practical experiences will make frequent use of and reference to evaluation and assessment of student performance.

Emphasis Area: School (Grades K-12) Administration
The master's program with emphasis in school administration is designed to prepare leaders for 21st century schools. These leaders must begin now to envision the nature of a global technical-information-based society and the schooling such a society will require. Assumptions based on available knowledge concerning these schools will be made in designing the M.A. program for students. Students will be expected to develop "Learning Organizational Culture" schools and demonstrate competency to develop:

1. Into a facilitator of relationships and outcomes that enhance the effective operation of the school.
2. Collaborative and participative planning and decision-making structures (teams).
3. Support networks from the community and in the school.
4. School organizations as cultures of renewal, risk, problem-solving, trust and caring.
5. School culture of reflective and critical thought concerning learning theory and practice.

On completion of the program, students will be equipped to envision and embrace an information-based, developmental society. Students begin their program of study with a cohort group of other potential school leaders and will take a series of 3-credit-hour block courses. Each cohort will work collaboratively throughout its studies and be led by University faculty.

Students will complete both individual and group projects, over the course of their degree program, and participate in field experiences each semester. While the three-block sequence is intended for school leaders at every level, it is expected that students will tailor their elective coursework and their culminating experience (practicum or internship) to the building level at which they hold their teaching credentials.

Students who complete the master of arts in educational administration may be recommended for initial certification as a building administrator (Kansas) or principal (Missouri). Students must complete the Educational Specialist to earn advanced principal certification in Missouri. Advanced certification is required to be a principal in an AAA-rated school district.
Administrative assessment (the School Leaders Licensure Assessment) is required in Missouri and Kansas.

**Coordinator:**
Jennifer Friend, (816)235-2550, friendj@umkc.edu

**Admissions**
Admission and retention for the M.A. in educational administration, with an emphasis in school (K-12) administration, requires that the following steps be successfully completed:

**Admission into Program**
- Completion of a course in education of the exceptional child.
- Attain an undergraduate GPA of at least 2.75.
- Provide copy of a current permanent or professional teaching license/certificate.
- Provide resume showing at least one year of certified teaching experience in elementary, middle or secondary schools under a fully licensed teaching certificate (temporary or provisional certification does not meet this requirement).
- Essay statement regarding past, present and future career goals (500 words or less).
- A minimum of three letters of reference on official letterhead from a direct supervisor of professional teaching experience.

Students who do not meet all of the above admission requirements may receive conditional admission to the program. Full admission is contingent upon completion of a minimum of six hours of core requirements during the first semester of enrollment with a grade of ‘B’ or better.

**Acceptance into Practicum**
- Successful completion of all coursework (1) with a B grade or better.

**Program Completion and Recommendation for Administrative Certificate**
- Successful completion of the practicum.
- Recommendation of the faculty based on coursework completion, development of an administrative platform, and action research presentation.
- Completion of the student exit survey.

**Post-Program Completion**
- Student completion of ELPF graduate survey relative to preparation program and ELCC standards.
- Employer survey completion (supervisor).

(1) No more than 6 post-undergraduate/graduate credit hours may transfer into the M.A. program.
(2) Students must file a Program Plan of Study while enrolled in the course EDUC-UL 5501.
(3) EDUC-UL 5501 is the prerequisite to EDUC-UL 5502; and EDUC-UL 5502 is the prerequisite to EDUC-UL 5503. These courses are mandatory and cannot be waived. Students must enroll in these courses in sequence.
Degree Requirements Elementary Administration

**Theoretical and Functional Aspects of Educational Administration (27 hours)**

**Required core for all level principals:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-UL 5501*</td>
<td>Foundations of School Leadership and Organization (Block I)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5502*</td>
<td>Building Administration &amp; Management (Block II)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5503*</td>
<td>Student, Staff &amp; Organization Development (Block III)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5507</td>
<td>Instructional Supervision</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5515</td>
<td>Governmental &amp; Legal Aspects of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5518</td>
<td>Leadership for School Improvement</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5520</td>
<td>Data Driven Leadership for Reculturing Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5574</td>
<td>Administrative Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

* EDUC-UL 5501, EDUC-UL 5502 and EDUC-UL 5503 must be taken sequentially. EDUC-UL 5501 is offered in the fall and spring semesters only.

**Related and Supporting Areas: Curriculum, Humanistic, Behavioral, Research (12 hours)**

**Curriculum (Required 3 hours):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-C&amp;I 5505</td>
<td>Introduction to Curriculum Theory</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5506</td>
<td>Curriculum Design</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-C&amp;I 5591</td>
<td>Curriculum &amp; Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

**Humanistic (Required 3 hours):**

Select one course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-UL 5526</td>
<td>Phil. Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5527</td>
<td>Hist. Foundations of Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Behavioral (Required 3 hours):**

Select one course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-R&amp;P 5502</td>
<td>Advanced Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-R&amp;P 5510</td>
<td>Child Behavior and Development</td>
<td>3</td>
</tr>
</tbody>
</table>
EDUC-UL 5525  Cultural Foundations of Education  3
EDUC-UL 5528  Sociological Found. of Education  3
EDUC-R&P 5512* Adolescent Devel. and the School (Meets Middle School cert. requirements)  3

Research (Required 3 hours) Select one course:
EDUC-R&P 5508  Principles and Methods of Research (Required for Kansas Certification)  3
EDUC-R&P 5522  Principles of Testing  3

Degree Requirements Secondary Administration

*Theoretical and Functional Aspects of Educational Administration (27 hours)*

**Required core for all level principals:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-UL 5501*</td>
<td>Foundations of School Leadership and Organization (Block I)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5502*</td>
<td>Building Administration &amp; Management (Block II)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5503*</td>
<td>Student, Staff &amp; Organization Development (Block III)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5507</td>
<td>Instructional Supervision</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5515</td>
<td>Governmental &amp; Legal Aspects of Education</td>
<td>3</td>
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<tr>
<td>EDUC-UL 5518</td>
<td>Leadership for School Improvement</td>
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<td>Data Driven Leadership for Reculturing Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5574</td>
<td>Administrative Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

* EDUC-UL 5501, EDUC-UL 5502 and EDUC-UL 5503 must be taken sequentially.
EDUC-UL 5501 is offered in the fall and spring semesters only.

Curriculum (Required 3 hours) Select one course:
EDUC-C&I 5505  Introduction to Curriculum Theory  3
EDUC-C&I 5506  Curriculum Design  3
EDUC-C&I 5591  Curriculum & Instruction
Humanistic (Required 3 hours) Select one course:

EDUC-UL 5526 Phil. Foundations of Education 3
EDUC-UL 5527 Hist. Foundations of Education 3

Behavioral (Required 3 hours) Select one course:

EDUC-R&P 5502 Advanced Educational Psychology 3
EDUC-R&P 5510 Child Behavior and Development 3
EDUC-UL 5525 Cultural Foundations of Education 3
EDUC-UL 5528 Sociological Found. of Education 3
EDUC-R&P 5512* Adolescent Devel. and the School (Meets Middle School cert. requirements) 3

Research (Required 3 hours) Select one course:

EDUC-R&P 5508 Principles and Methods of Research (Required for Kansas Certification) 3
EDUC-R&P 5522 Principles of Testing 3

Principal Certification
Students seeking administrative certification must first offer proof of holding valid teaching certification at the same level (i.e., elementary or secondary), and have a minimum of two years teaching experience. The M.A. is offered with certification concentrations in elementary school administration or secondary school administration. Additional coursework is required for certification as a middle school administrator.

Those who complete the master of arts in educational administration may be recommended for initial certification as a building administrator (Kansas) or principal (Missouri). Students are encouraged to complete the educational specialist degree to further their careers. In addition to completion of the academic program, Missouri and Kansas require all prospective administrators to successfully complete the School Leaders Licensure Assessment.

Emphasis Area: Higher Education
The graduate program in Educational Administration with an emphasis in Higher Education prepares administrators and educators for the demands of leadership in colleges or universities and other institutional settings. Through a comprehensive master’s program for individuals wanting a graduate degree or through coursework taken for professional development, the program supports administrative leaders and educators who seek to enhance their professional competencies and effectiveness in today’s increasingly diverse work place.

Student programs of study at the master’s level are developed to reflect required core courses that provide all master’s level students with fundamental understandings of higher education, student development, organizational leadership and diversity. In addition, the program offers a range of cognate courses that are tailored to meet specific student interests or learning goals in
administrative leadership or student affairs administration. Advising materials and meetings with faculty enable students to create academic programs that meet their unique learning needs. Unless indicated, all courses are available to non-degree seeking students for professional development.

All master’s level students will design a full-term internship in collaboration with an on-site supervisor and the instructor of the fieldwork course. The purpose of the internship is to provide students with guided opportunities to enhance skills, expand their professional experience base, and apply course learning in new settings.

Admissions
The Higher Education faculty review all admissions applications and make admission decisions. Admission for the M.A. in educational administration, with an emphasis in Higher Education, requires that the following steps be successfully completed:

Admission Requirements
1. Full admission to the Higher Education Program requires:
   - Completion of the UMKC graduate admission application.
   - An undergraduate 3.0 GPA or higher.
   - GRE (Verbal/Quantitative/Essay) Scores.
   - Two Letters of Reference.
   - A written statement of purpose (500 words maximum) that outlines the student’s rationale for application to the program and learning goals.

2. Students who do not meet the undergraduate grade-point average or who have not taken the GRE can receive conditional admission to the program. The GRE must be taken during the first semester of enrollment and students must complete a minimum of six hours of core requirements with a grade of "B" or better within the first two semesters of enrollment.

3. Application deadlines are as follows:
   - Apr. 1 for summer term
   - July 1 for fall term
   - Nov. 1 for spring term

Required Core Courses (21 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-UL 5526</td>
<td>Philosophical Foundations of Education</td>
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</tr>
<tr>
<td>EDUC-UL 5550</td>
<td>Organization and Administration of Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5556</td>
<td>The College Student</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5560</td>
<td>Leadership in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5564</td>
<td>History of Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-UL 5566</td>
<td>Racial and Ethnic Diversity, and Cultural Understanding</td>
<td>3</td>
</tr>
</tbody>
</table>
EDUC-UL 5567  Higher Education Capstone  3

**Internship (3 credit hours)**
EDUC-UL 5571  Internship in Higher Education  3

**Research and Statistics (3 credit hours)**
EDUC-R&P 5508  Principles and Methods of Research  3

**Focus Area: Student Affairs Administration**
EDUC-UL 5551  Student Affairs Administration  3
EDUC-UL 5558  Advanced Student Development Theory  3
EDUC-UL 5557  Legal Aspects of Higher Education  3

**Focus Area: Foundations of Education**
EDUC-UL 5525  Cultural Foundations of Education  3
EDUC-UL 5527  Historical Foundations of Education  3
EDUC-UL 5528  Sociological Foundations of Education  3

**Focus Area: Sports Administration & Exercise Science**
PHYS-ED 5561  Sociology of Sport & Exercise  3
PHYS-ED 5570  Psychology of Sport & Exercise  3
PHYS-ED 5530  Organization & Administration of Athletics  3

**Students with no focus area must choose 3 electives:**
EDUC-UL 5525  Cultural Foundations of Education  3
EDUC-UL 5526  Philosophical Foundations of Education  3
EDUC-UL 5528  Sociological Foundations of Education  3
EDUC-UL 5551  Student Affairs Administration in Higher Education  3
EDUC-UL 5552  Financial Aspects of Higher Education  3
EDUC-UL 5555  Community College  3
EDUC-UL 5557  Legal Aspects of Higher Education  3
EDUC-UL 5558  Advanced Student Development Theory  3
EDUC-UL 5559  Current Issues in Higher Education  3
CPCE 5505  Career Development  3
EDUC-R&P 5505  Statistical Methods I  3
PHYS-ED 5561  Sociology of Sport & Exercise  3
PHYS-ED 5570  Psychology of Sport & Exercise  3
PHYS-ED 5530  Organization & Administration of Athletics  3

Note: The student may select courses from other disciplines to meet elective hours. All coursework must be approved by the adviser.
Educational Specialist: Educational Administration

The educational specialist degree with emphasis in school administration (accredited by the National Council for Accreditation of Teacher Education and the Missouri Department of Elementary and Secondary Education) prepares teachers for specialization in school leadership and administration. The program also provides an opportunity for practicing administrators to enhance their professional skills and to connect with other practitioners from the metropolitan area and region. To this end, the program's emphasis is the development of broad understanding and experiences across the whole professional field, the acquisition of in-depth knowledge in at least one specialized field in educational administration, and integrative experiences demonstrating the application of theory to practice.

The program of study will be planned in accord with the candidates' professional goals. Emphasis areas include:

- General administration (school superintendents and other central office administrators)
- Secondary principals or assistant principals
- Elementary principals or assistant principals

Although not essential to completion of the educational specialist degree, the master of arts may be earned by the candidate at approximately the halfway point.

Requirements for Admission

Candidates must:

- Provide a copy of a current permanent or professional school administrator/principal license/certificate to teach.
- Have at least two years of certified teaching, supervisory, or administrative experience, or any combination thereof, in elementary, middle or secondary schools under a fully licensed teaching certificate (temporary or provisional certification does not meet this requirement).
- Provide a transcript demonstrating completion of a course in psychology or education of the exceptional child.
- Possess a master's degree with a GPA of at least 3.25

Curriculum

A minimum of 36 credit hours is required in the major area. Individual programs will be designed with the assistance of the faculty adviser to develop competencies in the theoretical, technical and functional aspects of educational administration.

The basic prerequisite course for the K-12 program is:

- EDUC-UL 5501, Foundations of School Leadership and Organization

Completion of one of the following is required in all programs:

- EDUC-UL 5574 Administrative Practicum
- EDUC-UL 5575 Internship in Administration
Candidates are required to complete 15-18 credit hours of work in the supporting areas in education and humanistic and behavioral studies. Courses in the field of educational psychology, history of education, philosophy of education, sociology of education, curriculum, or from the behavioral sciences or humanities are considered appropriate.

Also required are 6 credit hours of research coursework EDUC-R&P 5508, Principles and Methods of Research

Note: Students should identify a faculty adviser in Educational Leadership, Policy and Foundations at the time of admission to the School of Education. Final program planning is a joint responsibility of the candidate and, the faculty adviser.

Requirements for Graduation

In addition to the general School of Education graduate degree requirements, the Ed.S. degree in educational administration also requires:

1. EDUC-UL 5574 Administrative Practicum
   -or-
   EDUC-UL 5575 Administrative Internship
2. A planned field experience
3. An action research project
4. The educational specialist degrees designed to meet state certification requirements for school superintendency and special education administration have specific course requirements in addition to the above.
Educational Specialist: Counseling and Guidance

The Educational Specialist degree in Counseling and Guidance is a post-masters program designed for experienced counselors who desire to improve, update or add another area to their professional expertise. The program is designed with flexibility to support the preparation of licensed professional counselors and certified school counselors.

Emphasis areas include General Mental Health Counseling and School Counseling.

Students are not currently being admitted for the General, Couples and Family Counseling, or Substance Abuse Counseling emphases in the Ed.S. degree program as these emphasis areas have been replaced by the "General Mental Health counseling" option listed above.

All students pursuing the Educational Specialist degree in Counseling and Guidance complete a minimum of 20 hours of required coursework (because of certification and licensure requirements, students may be required to complete additional courses). In addition to the core courses (11 credits), students will complete 9 or more hours depending on the chosen emphasis area and certification and/or licensure requirements. The curriculum is individually designed with an adviser so each candidate meets his/her specific needs and professional objectives. Those electing the School Counseling emphasis will, upon successful completion of the coursework and passing of the PRAXIS exam for counseling, become eligible for school counselor certification in Missouri. The General Mental Health Counseling emphasis area is designed for students who wish to work in a variety of settings other than the public schools. Those earning degrees in counseling become employed in community colleges, four-year colleges, specialized areas in large universities (e.g., career planning and placement, drug and alcohol counseling), the court system and community-based mental health services.

Student Learning Outcomes

Graduates demonstrate skills and knowledge in the following areas:

- Knowledge of advanced theories of counseling or career development
- Knowledge of theories of counseling supervision
- Knowledge of counseling-related topics, such as couples and family counseling, counseling the older adult, sex therapy, and
- Application of counseling and practice skills in a community (or school) setting.

Requirements for Admission

Applicants must:

1. Hold a master's degree in counseling from an accredited institution.
2. A grade of "B-" or better is required for courses in theoris and methods of counseling.
3. A grade of "pass" or "credit" is required for counseling practicum courses.
4. Overall master's in counseling degree GPA of at least 3.25 on a 4.0 scale.

Admission Procedures

Applications are accepted and reviewed on an ongoing basis. Applicants are encouraged to apply early to allow for processing and review time, which could take up to 8 weeks. Application materials must be submitted to two separate offices on campus.
Send the following materials:

1. UMKC Application for Admission.
2. Application Fee: $35 (domestic online) or $50 (international) non-refundable application fee.
3. Official transcripts from all post-secondary institutions.
4. Official GRE scores.

to the following address:

**Mailing Address**
University of Missouri-Kansas City
UMKC Admissions
120 Administrative Center
5100 Rockhill Road
Kansas City, MO 64110-2499

Send the following materials:

1. Cover sheet for the Education Specialist Degree in Counseling and Guidance Program (included in the program application packet).
2. Three applicant evaluation forms (included in the program application packet) with attached letters of recommendation.
   - Raters should address your suitability for professional studies in counseling.
   - Raters should have knowledge of your interpersonal and intellectual functioning and skills in research, counseling and written and oral communication.
   - Raters should enclose their letters of recommendation along with the provided rating sheet in an envelope, sign their names across the sealed flap, and either return to the applicant for later submission or mail directly to the Division at the address below.
   - Raters should be professional references. This excludes friends and family members.
3. Personal statement.
   - Submit a concise two to three page statement concerning your professional goals.
   - Include your professional and applied interests/experiences.
4. Additional requirements may apply for international students.

to the following address:

**Mailing Address**
University of Missouri-Kansas City
ATTN: ED.S. Counseling and Guidance Admissions Committee
215 Education Building
5100 Rockhill Road
Kansas City, MO 64110-2499

**Curriculum**
Program of study includes a minimum of 20 credit hours of coursework, including 11 credit hours of core courses and nine or more credit hours for emphasis area, certification, and/or
licensure requirements. Additional coursework may be necessary for students who did not complete all of the program pre-requisite courses during their master's degree in counseling. Individual coursework is dependent on the emphasis option chosen and coursework completed during the master's degree in counseling and will be determined with the help of the student's faculty adviser. Students must maintain a B average in all coursework associated with the Ed.S. program.

- No grade below B in professional counseling courses will be acceptable.
- Students are required to confer with advisers prior to enrolling in any course leading to the educational specialist degree.
- Courses at the 5600 level cannot be taken until students are admitted to the Ed.S. program. Please note that 5600 level coursework is likely to be offered during daytime hours.

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<tr>
<th>Common Core Courses</th>
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<td>CPCE 5605 -or- CPCE 5620</td>
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<td>CPCE 5640</td>
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<td>Six credits of practicum and/or internship from the following course options:</td>
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<td>CPCE 5532</td>
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<td>CPCE 5502</td>
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<td>Minimum of 9 hours from the following:</td>
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<td>CPCE 5503</td>
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<td>CPCE 5521</td>
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<td>CPCE 5527</td>
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<td>A&amp;S 5500</td>
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<td>NURSE 5530</td>
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<td>SOCIOL 410R</td>
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<td>CPCE 5589A</td>
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<td>CPCE 5590MH</td>
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<th>School Counseling Emphasis</th>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<td>CPCE 5504</td>
<td>School Guidance Programs</td>
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<tr>
<td>* TCH-ED 5404</td>
<td>(1) Education of the Exceptional Child and Youth</td>
<td>3</td>
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<tr>
<td>* EDUC-C&amp;I 5512</td>
<td>(2) Strategies for Effective Classroom Management</td>
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<tr>
<td>* EDUC-C&amp;I 5517</td>
<td>(2) Teaching Methods &amp; Practices</td>
<td>3</td>
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<tr>
<td>CPCE 5550</td>
<td>Organization and Administration of Counseling Programs</td>
<td>3</td>
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<tr>
<td>* EDUC-R&amp;P 5510</td>
<td>Child Behavior &amp; Development</td>
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<td>-or-</td>
<td>-or- Adolescent Development &amp; the School</td>
<td>3</td>
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<tr>
<td>* EDUC-R&amp;P 5512</td>
<td>-or- Lifespan Human Development</td>
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<td>-or-</td>
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<td>* EDUC-R&amp;P 5513</td>
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(1) Many people with a teaching certificate already have this course. You may not need to retake it.

(2) Required for those who do not hold a current teaching certificate.

Requirements for Graduation

Students must complete all courses in the Ed.S. program with at least a 3.0 final GPA. Students must apply for graduation by the posted deadline during their final term of enrollment. All students must be enrolled during the term they intend to graduate. Students must pass the PRAXIS Exam for Counseling. More information about the program can be found at http://education.umkc.edu/programs/view/17
Educational Specialist: Curriculum and Instruction

The goal of the educational specialist degree in Curriculum and Instruction emphasis in Curriculum Theory and Leadership is to build on the master's degree in curriculum and instruction on the theme of Transformative Leadership. The degree is designed for educators who want to assume positions in instructional leadership. The program requires course work in four major areas:

- Curriculum Theory
- Diverse Learners
- Becoming a Learning Leader
- Transforming Practice

It is assumed that most candidates will have a degree in an area related to the field of education. Their faculty advisor, however, may require additional course work in a specialty area such as math education. This would depend upon the applicant's background, previous coursework and anticipated school role.

Students are not currently being admitted for the Early Childhood Education, Elementary or Middle School Specialty, Multicultural Education, or Subject Matter Specialty emphases in the Ed.S. program in Curriculum and Instruction.

Program Goals

The Educational Specialist Degree in Curriculum & Instruction is designed to further enhance the skills and knowledge necessary to collaborate with other educators and lead in the development of learning opportunities which:

- promote the learning, growth and development of all students, valuing the differences which diverse learners bring to the school experience;
- demonstrate understanding of how knowledge is created, organized and linked to other disciplines;
- convey subjects to diverse learners through multiple pathways;
- equitably manage and monitor student learning;
- promote reflective teaching and decision-making;
- encourage the development of learning communities which include education professionals, parents and communities.

Admission Requirements

Applications are accepted on a rolling basis and may be obtained from and submitted to the Office of Admissions.

Students are eligible for full admission to the Ed.S. program in curriculum and instruction if they have met two of the three following requirements:

- Master's degree in an educational area with a minimum grade point average of 3.25
- Two years of teaching experience
- Graduate Record Exam (GRE) with score of 155 or better on Verbal component
Program Requirements
A minimum of 36 hours of approved graduate work beyond the master's degree is required for the educational specialist degree, with at least 60 percent of the courses numbered 5500 and above. Any courses on the 300 and 400 level included in the Ed.S. program of study must be accepted by the advisor and taken for graduate credit.

As soon as possible after admission to graduate study, students should seek to meet with a faculty member in the major to plan a program of study. This program must be filed in the Education Student Services Office and approved by the dean's representative when students still have at least 18 hours beyond the master's degree to complete. A majority (80%) of new coursework applied to any graduate degree to be completed at UMKC must be taken at UMKC. Transfer credit not included in a master's degree must not be more than 7 years old at the time of degree completion or graduation.

Transfer credit may be allowed for correspondence courses, provided the credits meet the criteria for graduate coursework. A maximum of 6 credit hours of continuing education credit (workshops, special topics) taken for graduate credit may be included on an Ed.S. program.

UMKC credit more than seven years old at the time of degree completion that has not been included on a master's degree is not applicable to an Ed.S. degree unless validated to the satisfaction of the School of Education and the School of Graduate Studies. A maximum of 30 percent of coursework on the student's program of study may be validated under this procedure. All validation must be completed by the end of the final semester of enrollment.

Curriculum Summary
The coursework is divided into the following study areas:

- Becoming a Learning Leader 12 hours
- Diverse Learners 9 hours
- Curriculum Theory 6 hours
- Transforming Practice 9 hours

Becoming a Learning Leader (12 hours)
EDUC-UL 5523 Administrative Roles for Instructional Leadership
EDUC-C&I 5513 Effective Communication in the Classroom
EDUC-R&P 5514 Adult Development
EDUC-C&I 5570 Curriculum and Instruction in Technology

Working with Diverse Learners (6 hours)
EDUC-C&I 5563 Multicultural Perspectives in Education
or
EDUC-C&I 5562 Teaching for Equity and Social Justice
EDUC-C&I 5510 Differentiated Instruction
Curriculum Theory (6 hours)
EDUC-C&I 5505 Introduction to Curriculum Theory
or
EDUC-C&I 5506 Curriculum Design
EDUC-C&I 5618 Survey of Research in Curriculum
or
EDUC-C&I 5620 Seminars in Theories Related to Curriculum

Assessment (3 hours)
EDUC-R&P 5522 Principles of Testing
or
EDUC-C&I Curriculum Evaluation

Transforming Practice (9 hours)
EDUC-R&P 5505 Statistics or
EDUC-R&P 5508 Principles and Methods of Research
-and-
EDUC-C&I 5621 Culminating Project in Curriculum and Instruction (6 hours)
-or-
EDUC-C&I 5621 Culminating Project in Curriculum and Instruction (3 hours)
-and-
EDUC-C&I 5595 Action Research (3 hours)

The culminating project is an experience designed by the student with the assistance and approval of the advisor. The culminating project includes the selection of a topic relevant to the student's course of study, a review of current research and trends, and the design of a plan of action, the implementation of that action and reflective analysis of the experience.

1The Culminating experience is to be taken toward the end of the program just prior to sitting for comprehensive examination.

Residency
One full-time summer session or one full-time semester is required.

Program Committee
Final program planning is the joint responsibility of the candidate, the advisor and the candidate's committee. The committee shall consist of three faculty members, all from curriculum and instruction or two faculty members from curriculum and instruction and a faculty member from another division of the School of Education or University.

This committee and the candidate shall work cooperatively in reviewing progress in the program, planning the culminating experience and making arrangements for the comprehensive examination.
Comprehensive Examination
Students are required to pass a comprehensive examination in curriculum upon the completion of the culminating experience. This four-hour examination may be either written or oral, at the discretion of the committee.
Graduate Certificate in Health Professions Curriculum and Evaluation

The Graduate Certificate in Health Professions Curriculum and Evaluation provides an educational research foundation for teaching and assessment in health professions education. The certificate, which includes six courses (18 credit hours), is based on a mix of both classroom and internet instruction. The Graduate Certificate in Health Professions Curriculum and Evaluation reflects a unique collaboration between the School of Education and the School of Medicine at UMKC, both nationally recognized for their innovation in teaching and learning.

The program seeks to:

- Deliver effective, theory-based instruction in large group, small group, and clinical settings
- Develop skill in educational research as it relates to the quality of instructional practice
- Design evidence-based educational programs and materials with appropriate scope, sequence, and focus for learners
- Understand assessment and effectively use assessment tools to track student progress and to promote student learning
- Develop skill in program and curriculum development and evaluation in health professions education
- Identify current issues in health professions education and develop skill in monitoring changes in the field

Admission requirements:

- Applicants must hold a professional degree in a health profession (e.g. MD, DDS, DO, RN, PharmD) and/or a bachelor's degree. Limited enrollment.
- Applicants must complete the graduate application found at this link.

Submit all university transcripts as well as a one-page goal statement, resume or CV, and two letters of recommendation to:
UMKC School of Medicine
Office of Admissions, M1-103
ATTN: Health Professions Curriculum and Evaluation
2411 Holmes Street
Kansas City, MO 64108

Course requirements:

- HPRE 5530: Current Issues in Health Professions Education
- EDRP 5639: Educational Psychology: Focus on Teaching in Higher Education
- HPRE 5550: Assessment in Health Professions Education
- EDRP 5514: Instructional Design
- EDRP 5508: Principles and Methods of Research
- EDRP 5625: Program Development and Evaluation

Courses include a mix of classroom and online work. The program may be completed in one year. For more information, please visit our web site at this link.
Admission to the Teacher Education Program

In order to meet state and national accreditation standards, the implementation of an electronic assessment system is required to measure the knowledge, skills, and dispositions of teacher candidates. The UMKC School of Education has implemented LiveText in order to meet this requirement. LiveText allows for the tracking of students' progress throughout their careers in the School of Education as well as how that progress relates to the relevant educational standards met by individual programs.

Students receive other benefits from LiveText, including:

- An online document storage area available anywhere with an internet connection, and the ability to share stored documents with fellow students
- A system for creating and sharing professional portfolios that can be disseminated to potential employers

LiveText is used to assist students in the collection, preservation, organization, evaluation, and dissemination of activities, assignments, pieces of evidence, and reflections that are associated with competencies and standards. Information about the School of Education assessment system can be found at this link.

As part of its assessment system, the School of Education has adopted the Social Equity Essay as a written assessment to measure candidates' dispositions on issues such as social justice and equity. The written prompt will be administered at program entry and program exit. All responses are confidential and will not be used in making grading decisions.

Students new to UMKC should send transcripts and applications for admission to:
UMKC Office of Admissions
5100 Rockhill Road
Kansas City, MO 64110-2499

Students seeking teacher certification should apply for admission to the School of Education when they anticipate completion of the majority of their prerequisite coursework with a cumulative 2.75 GPA. Applications for all Teacher Education programs are due by the end of the fall semester for admission the subsequent summer or fall semester. Specifics on the application process may be found at http://education.umkc.edu/applyte.

1. Initial admission at the freshman or sophomore level will be as a pre-education major to the School of Education in accordance with regular UMKC admissions standards. For students interested in music education, admission will be to the Conservatory of Music and Dance, which is discussed further in that section of the catalog.
2. Admission to Teacher Education:
   - Completion of a majority of specific prerequisite and subject area coursework with a 2.75 cumulative GPA and 2.5 content area GPA
   - Score results from the ACT or SAT (if graduated from high school in past 5 years)
A score of 235 or greater on each segment of the College Basic Academic Subjects Examination (C-BASE)
Completion of an oral communications class, English Composition I & II and a required math class or its equivalent with grades of C or better (students who have less than a C grade in mathematics may take the subject area CLEP)
Clearance of an FBI background check as required by the Missouri Department of Elementary and Secondary Education
Interview
Acceptance by the Teacher Education Admissions Committee based on one essay selected from prompts on the application form and two letters of recommendation indicating an appropriate disposition to educating children
Passing scores on the appropriate PRAXIS II content knowledge exam are required for admission to the middle school, secondary and K-12 programs.

3. Admission to student teaching requires:
- Recommendations from methods teachers.
- A cumulative 2.75 GPA.
- A subject area 2.5 GPA.
- Completion of all education courses with grades of C or better.
- Students must pass an FBI background check as required by the Missouri Department of Elementary and Secondary Education.

Post-Baccalaureate Programs
Students who have earned a degree in another field and wish to become certified teachers should apply to the Teacher Education program by the process outlined above. Academic work completed prior to admission will be reviewed on a course-by-course basis. Coursework in the subject area and the professional education sequence is required of all students as are general education courses specifically required for certification.

Retention
Education majors are expected to maintain a quality of achievement significantly above minimum UMKC standards for degree work. Individual student progress will be monitored throughout the program. Satisfactory progress is required of all students for retention in the teacher preparation program. Students are expected to maintain academic standards, perform satisfactorily in clinical courses, refrain from academic dishonesty, comply with the established University and teacher education timetables and requirements, and refrain from unethical or unprofessional behavior or behaviors that obstruct the training process or threaten the welfare of the student or others. Other circumstances involving student behavior will be addressed by the faculty on an individual basis.
Specific policies relating to academic progress and dispositions that relate to retention in the teacher preparation program can be found at http://education.umkc.edu/TE/CurrentStudents.html where there is a link to the current Student Handbook.

Title II Notice
Title II of the Higher Education Act requires that every institution of higher education provide public information regarding the pass rate of the institution's graduates on the teacher certification or licensure assessment of the state in which the institution is located. Additionally,
Title II requires that a comparison of each program's pass rate be made with the average pass rate in the state.

Graduates of the teacher education program at UMKC have achieved a 99 percent pass rate on the Praxis II, a nationally normed examination required by the State of Missouri for certification purposes. The average pass rate in Missouri is 97 percent.

**Recommendation for Teacher Certification**

Although the School of Education may recommend persons for certification to teach in Missouri, the requirements for certification are determined by the state. The State of Missouri requires that any individual seeking to be a teacher complete an accredited college or university's teacher education program. Individuals seeking certification must meet the program requirements established by UMKC as approved and accredited by the Missouri Department of Elementary and Secondary Education regardless of previously completed college coursework. Post-baccalaureate students are encouraged to consider entering the field of education but should be prepared to complete the specific content area and professional education courses required for certification.

In cooperation with the Missouri Department of Elementary and Secondary Education and the National Council for Accreditation of Teacher Education, UMKC is responsible for recommending students and alumni for teacher certification. Requests for certification are initiated by students. The School of Education will also make recommendations to other state's departments of education.

The certification and data manager in the School of Education Student Services Office serves as a certification officer for teachers, counselors and administrators at UMKC. Information for Missouri certification can be accessed on-line at http://dese.mo.gov/divteachqual/teachcert/. Certification application materials and information for Kansas can be obtained directly from the state at http://ksde.org/Default.aspx?tabid=1648. Students should apply for certification early in their final semester to prevent delay in receiving the certificate. Institutional recommendations for certification are made only for students who have completed a UMKC School of Education degree or the equivalent in the appropriate certification area. To establish a basis for the institutional recommendation, all students who do not earn a degree at UMKC, who are seeking an additional endorsement to teach, administer, or counsel, must take at least 12 hours of coursework planned with an adviser in the School of Education.

Most states, including Missouri and Kansas, have additional testing requirements for certification. It is the student's responsibility to obtain this information and satisfy those testing requirements prior to applying for certification. In addition, the states of Missouri and Kansas require that all candidates for certification submit fingerprints to be used for state and national background checks before any certificate is issued.
On completion of the appropriate degree, recommendation for Missouri* certification can be achieved in the following areas:

- **Early Childhood Teacher** (birth-3rd grade), B.A. early childhood education
- **Elementary Teacher** (1-6), B.A. elementary education
- **Middle School Teacher** (5-9), B.A. middle school education/subject area specialty (language arts, mathematics, science and social studies)
- **Secondary Teacher** (9-12), B.A. secondary education/subject matter specialty: English, mathematics, science (requires an emphasis in biology, chemistry, earth science, or physics), unified science (requires an emphasis in biology, chemistry, earth science, or physics), and social studies.
- **Teacher** (K-12), B.M.E. (Bachelor of Music Education) music education/choral/instrumental; B.A. secondary education: foreign language (French, German, Spanish), Art
- **School Counselor** (1-8), M.A. counseling and guidance/elementary
- **School Counselor** (7-12), M.A. counseling and guidance/secondary
- **Teaching English to Speakers of Other Languages** (K-12), M.A. curriculum and instruction/TESOL
- **Principal** (K-8) M.A. educational administration/elementary (initial); Ed.S. educational administration/elementary (advanced)
- **Principal** (7-12) M.A. educational administration/secondary (initial); Ed.S. educational administration/secondary (advanced)
- **Middle Level Principal** (5-9), M.A. educational administration
- **Special Reading Teacher** (K-12), M.A., Ed.S. reading education
- **Mild/Moderate Cross-Categorical disabilities** (K-12), M.A. special education
- **Superintendency**, Ed.S. educational administration

* Kansas and other state's certification subjects and levels are similar. Contact the School of Education Student Services Office for information.

**Provisional Certification**
The State of Missouri allows individuals who hold a bachelor's degree to be provisionally certified to teach provided the individual is within 12 credit hours of completing a teacher certification program. The Missouri school district that wishes to employ such an individual for a teaching position must complete its segment of the on-line application before an academic contract is written and endorsed by the School of Education.

**Criminal Record Check**
Missouri State law requires all persons working in the public schools to have passed a criminal background check as done by the FBI and Missouri Highway Patrol. Students applying for teacher certification will have to request an FBI background check from DESE. Forms and instructions are available directly from DESE (http://dese.mo.gov/divteachqual/teachcert/bcindex.html) or in the Student Services Office.
State of Missouri Grade-Point Average Requirement
All persons certified to teach in public elementary middle, and secondary schools in Missouri, except for non-academic vocational and 45- and 90-day substitute teachers, must have an overall 2.5 GPA or higher (on a 4.0 scale).

Missouri Certification Testing
Missouri has established a requirement that all prospective teachers must take a competency examination prior to certification. All students must pass the Praxis II Specialty Area Test appropriate to their field of study prior to graduation for certification in Missouri. All test results must be sent directly to the UMKC School of Education. Passing scores have been established by the Missouri Department of Elementary and Secondary Education. Contact the School of Education Student Services Office for more information.

Bachelor of Arts: Early Childhood Education
Students who complete this program will earn the bachelor of arts in early childhood education (birth to grade 3). Successful completion of this program includes a professional teacher work sample. This results in eligibility for UMKC's recommendation for teacher certification in a self-contained early childhood/elementary classroom setting with children birth through grade three in Missouri, contingent on meeting state testing requirements. Completing four additional classes (10 credit hours) will allow certification for grades 1-6.

A 2.75 cumulative GPA is required at completion of the program. Grades of C or better are required in all professional education classes. Consult with an academic adviser to determine specific course requirements.

REQUIREMENTS FOR THE B.A. EARLY CHILDHOOD EDUCATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EDUC 180</td>
<td>Introduction to Education</td>
</tr>
<tr>
<td>EDUC 149</td>
<td>Economics in the K-8 Classroom</td>
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<tr>
<td>or</td>
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</tr>
<tr>
<td>GEOG 105</td>
<td>Introduction to the Elements of Geography</td>
</tr>
<tr>
<td>ENGLISH 110</td>
<td>English I: Introduction to Academic Prose</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Number Systems and Related Topics</td>
</tr>
<tr>
<td>Various</td>
<td>Chemistry/Earth Science/Physical Science with Lab</td>
</tr>
<tr>
<td>BIOLOGY 102</td>
<td>Biology and Living</td>
</tr>
<tr>
<td>BIOLOGY 102L</td>
<td>Biology and Living Laboratory</td>
</tr>
<tr>
<td>COMM-ST 110</td>
<td>Fundamentals of Effective Speaking and Listening</td>
</tr>
<tr>
<td>ENGLISH 225</td>
<td>English II: Intermediate Academic Prose</td>
</tr>
<tr>
<td>TCH-ED 259</td>
<td>Introduction to Urban Teaching</td>
</tr>
<tr>
<td>TCH-ED 385</td>
<td>Teaching and Learning with Technology</td>
</tr>
<tr>
<td>HISTORY 101</td>
<td>American History to 1877</td>
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<td>or</td>
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<tr>
<td>HISTORY 102</td>
<td>American History Since 1877</td>
</tr>
<tr>
<td>POL-SCI 210</td>
<td>American Government</td>
</tr>
<tr>
<td>TCH-ED 201</td>
<td>Children's Literature</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>TCH-ED 400</td>
<td>Child Development</td>
</tr>
<tr>
<td>TCH-ED 403</td>
<td>Educational Psychology</td>
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<tr>
<td>EDUC 428</td>
<td>Cultural Diversity and American Education</td>
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<tr>
<td>TCH-ED 402</td>
<td>Creative Activities</td>
</tr>
<tr>
<td>TCH-ED 404</td>
<td>Education of the Exceptional Child and Youth</td>
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<tr>
<td>TCH-ED 440</td>
<td>Introduction to Early Childhood Education</td>
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<tr>
<td>Various 300WI</td>
<td>Writing Intensive course numbered 300 or above</td>
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<tr>
<td>TCH-ED 444</td>
<td>Mathematics in Early Childhood and Elementary Schools</td>
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<tr>
<td>TCH-ED 445</td>
<td>Science in Early Childhood and Elementary Schools</td>
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<tr>
<td>TCH-ED 483</td>
<td>Early Childhood Reading I: Introduction to Literature and Reading</td>
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<tr>
<td>TCH-ED 441</td>
<td>Literacy Development</td>
</tr>
<tr>
<td>TCH-ED 442</td>
<td>Observation, Assessment &amp; Screening in Early Childhood Classrooms</td>
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<tr>
<td>TCH-ED 451</td>
<td>Child Guidance within the Classroom</td>
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<tr>
<td>TCH-ED 480</td>
<td>Practicum I Early Childhood</td>
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<tr>
<td>TCH-ED 484</td>
<td>Early Childhood Reading II: Assessing and Teaching Diverse Learners</td>
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<tr>
<td>TCH-ED 450</td>
<td>Integrating Curriculum in Early Childhood</td>
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<tr>
<td>TCH-ED 457</td>
<td>Infant and Toddler Care and Education</td>
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<tr>
<td>TCH-ED 458</td>
<td>Practicum for Learning About Infants and Toddlers</td>
</tr>
<tr>
<td>TCH-ED 459</td>
<td>Early Childhood Program Management and Advocacy</td>
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<tr>
<td>TCH-ED 481</td>
<td>Practicum II Early Childhood</td>
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<tr>
<td>TCH-ED 485</td>
<td>Language Arts in the Early Childhood Classroom</td>
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<tr>
<td>TCH-ED 447</td>
<td>Social Studies in Early Childhood and Elementary Schools</td>
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<tr>
<td>TCH-ED 452</td>
<td>Family and Program Relationships in Early Childhood Education</td>
</tr>
<tr>
<td>TCH-ED 453</td>
<td>Learning from Parents</td>
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<tr>
<td>TCH-ED 454</td>
<td>Human Relations in the Early Childhood Classroom</td>
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<tr>
<td>TCH-ED 455</td>
<td>Student Teaching in Preschool</td>
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<tr>
<td>TCH-ED 456</td>
<td>Student Teaching in Elementary, K – 3</td>
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</table>

**GRADUATION REQUIREMENTS EARLY CHILDHOOD EDUCATION**

Completion of at least 120 credit hours including all course work listed

Written English Proficiency Test passed  
Passing score on Praxis II: Education of Young Children examination  
Teacher Work Sample  
Exit Interview  
Q-Sort Belief Measure  
Social Equity Prompt
Graduation and Certification Requirements
All undergraduate students must abide by the School of Education Policies and Procedures and by the Undergraduate Admission Policies and Procedures in this catalog. All students completing an undergraduate teacher education degree must meet the following conditions in order to graduate and be recommended for teacher certification:

- 2.75 cumulative GPA.
- Completion of at least 120 credit hours if earning first bachelor's degree.
- "C" or higher in all Education courses.
- "C" or higher in all subject-area courses required for Middle School and Secondary degrees.
- Successful completion of the Teacher Work Sample.
- Passing score on the certification exam(s) required by the State of Missouri (PRAXIS II).

All students completing a baccalaureate degree program in the School of Education must apply to graduate by the posted deadline during their final semester of enrollment. The deadline for making application to graduate is posted on each term's academic calendar and on each student's registration materials. See your academic advisor for questions about these requirements.

Bachelor of Arts: Elementary Education
Students who complete this program will earn the bachelor of arts in elementary education. Successful completion of this program includes a teacher work sample and meeting Missouri state certification testing requirements. This results in eligibility for UMKC’s recommendation for elementary certification (grades first-sixth) in Missouri. A 2.75 cumulative GPA is required at completion of program. Grades of C or better are required in all subject matter and professional education classes. Consult with an academic adviser to determine specific course requirements.

Bachelor of Arts Elementary Education Course Requirements
EDUC 180 Introduction to Education
ENGLISH 110 English I: Introduction to Academic Prose
ENV-SCI 110R Understanding the Earth
ENV-SCI 110L Understanding the Earth Laboratory
HISTORY 206 World History
or
HISTORY 208 World History
MATH 130 Number Systems and Related Topics
BIOLOGY 102 Biology and Living
BIOLOGY 102L Biology and Living Laboratory
COMM-ST 110 Fundamentals of Effective Speaking and Listening
CONSVTY 285 Elementary Music Methods
MATH 140 Mathematics for Teachers: Elementary Geometry
<table>
<thead>
<tr>
<th>Humanities Elective</th>
<th>Class from Art, Conservatory, English, Foreign Language, Philosophy or Theater</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 225</td>
<td>English II: Intermediate Academic Prose</td>
</tr>
<tr>
<td>HISTORY 101</td>
<td>American History to 1877</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>HISTORY 102</td>
<td>American History since 1877</td>
</tr>
<tr>
<td>PHYS-ED 312</td>
<td>Physical Education for Teachers</td>
</tr>
<tr>
<td>POL-SCI 210</td>
<td>American Government</td>
</tr>
<tr>
<td>TCH-ED 403</td>
<td>Educational Psychology</td>
</tr>
<tr>
<td>TCH-ED 201</td>
<td>Children's Literature</td>
</tr>
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<td>TCH-ED 404</td>
<td>Education of the Exceptional Child and Youth</td>
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<tr>
<td>EDUC 149</td>
<td>Economics in the K-8 Classroom</td>
</tr>
<tr>
<td>GEOG 105</td>
<td>Introduction to the Elements of Geography</td>
</tr>
<tr>
<td>PHYS-ED 401</td>
<td>Health Teaching in the Schools</td>
</tr>
<tr>
<td>STAT 234 or STAT 235</td>
<td>Elementary Statistics (or College Algebra)</td>
</tr>
<tr>
<td>TCH-ED 385</td>
<td>Teaching and Learning with Technology</td>
</tr>
<tr>
<td>EDUC 289FD</td>
<td>Introductory Foundations</td>
</tr>
<tr>
<td>ENGLISH 250</td>
<td>Introduction to Language Acquisition and Diversity</td>
</tr>
<tr>
<td>TCH-ED 400</td>
<td>Child Development</td>
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<tr>
<td>TCH-ED 408WI</td>
<td>Advanced Foundations</td>
</tr>
<tr>
<td>EDUC 389CI</td>
<td>Curriculum and Assessment</td>
</tr>
<tr>
<td>EDUC 389LI</td>
<td>Literacy, Social Studies, and the Arts I</td>
</tr>
<tr>
<td>EDUC 389LM</td>
<td>Literacy, Social Studies, and the Arts II</td>
</tr>
<tr>
<td>EDUC 489LI</td>
<td>Literacy, Social Studies, and the Arts III</td>
</tr>
<tr>
<td>EDUC 489LM</td>
<td>Literacy, Social Studies, and the Arts IV</td>
</tr>
<tr>
<td>EDUC 389LT</td>
<td>Learning Theory I</td>
</tr>
<tr>
<td>EDUC 489LT</td>
<td>Learning Theory II</td>
</tr>
<tr>
<td>TCH-ED 413</td>
<td>Mathematics in the Elementary School</td>
</tr>
<tr>
<td>EDUC 389CA</td>
<td>Curriculum, Assessment, and Instructional Effectiveness</td>
</tr>
<tr>
<td>TCH-ED 417</td>
<td>Science in the Elementary School</td>
</tr>
<tr>
<td>EDUC 428</td>
<td>Cultural Diversity and American Education</td>
</tr>
<tr>
<td>TCH-ED 431</td>
<td>Community Immersion</td>
</tr>
<tr>
<td>EDUC 489MS</td>
<td>Math and Science in the Elementary School</td>
</tr>
<tr>
<td>EDUC 489CI</td>
<td>Teaching Apprenticeship I</td>
</tr>
<tr>
<td>EDUC 489CD</td>
<td>Teaching Apprenticeship II</td>
</tr>
<tr>
<td>TCH-ED 259</td>
<td>Intro to Urban Education</td>
</tr>
<tr>
<td>TCH-ED 365</td>
<td>Seminar in Teacher Identity, Power &amp; Privilege</td>
</tr>
<tr>
<td>TCH-ED 316</td>
<td>Integrated Methods: Literacy, Social Studies and the Arts I</td>
</tr>
<tr>
<td>TCH-ED 310</td>
<td>Instruction for Diverse Learners</td>
</tr>
<tr>
<td>TCH-ED 317</td>
<td>Integrated Methods; Literacy, Social Studies and the Arts II</td>
</tr>
<tr>
<td>TCH-ED 497</td>
<td>Teaching Internship</td>
</tr>
<tr>
<td>TCH-ED 318</td>
<td>Literacy Assessment and Instruction</td>
</tr>
<tr>
<td>TCH-ED 419</td>
<td>Student Teaching</td>
</tr>
</tbody>
</table>
TCH-ED 429  Effective Practices for Teaching Math, Science to Diverse Learners
PHYS-ED 401  Health Teaching in the Schools
Course includes required Red Cross certification in First Aid, CPR and AED.

GRADUATION REQUIREMENTS ELEMENTARY EDUCATION
Completion of at least 120 credit hours including all course work listed

Written English Proficiency Test passed

Passing score on Praxis II: Elementary Education: Curriculum, Instruction and Assessment examination

Teacher Work Sample

Bachelor of Arts: Middle School Education
The Bachelor of Arts in Middle School Education is taken with an emphasis in the subject area to be taught. Successful completion of this program includes a teacher work sample and meeting Missouri state certification testing requirements. This results in eligibility for UMKC's recommendation for middle school education certification (grades 5-9) in Missouri. The subjects available include:

English
Mathematics
Science
Social Studies

General education and subject matter requirements will vary with the field to be taught. Students must consult with an advisor to determine specific requirements. Students who already have a bachelor's degree may be required to complete subject area requirements that were not part of their prior degree program in addition to the professional education requirements. Students must consult with an advisor concerning specific requirements. Students may complete 30 hours in a single discipline, or 21 hours in each of two separate disciplines for certification.

A 2.75 cumulative GPA is required at completion of the program. Grades of C or better are required in all subject matter and professional education classes.
Bachelor of Arts Middle School Education Course Requirements

All middle school education majors take the following courses:

ENGLISH 110  English I: Introduction to Academic Prose
ENGLISH 225  English II: Intermediate Academic Prose
COMM-ST 110  Fundamentals of Effective Speaking and Listening
English (various)  Literature course
Fine Arts (various)  ART 101 or CONSVTY 120 or THEATRE 130
HISTORY 101  American History to 1877
or
HISTORY 102  American History since 1877
POL-SCI 210  American Government
Social Science (various)  Select class from Anthropology, Economics, Geography, Political Science, Psychology or Sociology
BIOLOGY 102  Biology and Living
BIOLOGY 102L  Biology and Living Laboratory
Science (various)  Select class with laboratory from chemistry, physical science or Earth science
MATH 130  Number Systems and Related Topics
MATH 140  Mathematics for Teachers: Elementary Geometry
EDUC 180  Introduction to Education
TCH-ED 385  Teaching and Learning with Technology
TCH-ED 403  Educational Psychology
TCH-ED 404  Education of the Exceptional Child and Youth
TCH-ED 420  Adolescent Development
EDUC 428  Cultural Diversity and American Education
EDRD 439  Content Area Reading and Language Development
TCH-ED 408WI  Advanced Foundations
TCH-ED 422  Practicum I
TCH-ED 416  Reading II: Assessing and Teaching Diverse Learners
TCH-ED 423  Practicum II
TCH-ED Various  Methods course in content area of study
TCH-ED 438  Culturally Responsive Strategies
TCH-ED 460  Middle School Philosophy and Organization
TCH-ED 462  Middle School Curriculum
TCH-ED 461  Student Teaching in the Middle School
EDUC 489GT  Gateway to Teaching

In addition to the courses listed above, at least one Content Field must be selected from the following:

CONTENT REQUIREMENTS FOR MIDDLE SCHOOL ENGLISH LANGUAGE ARTS

TCH-ED 432  Special Methods of Teaching English to Middle School and High School Students
EDUC 489LA  Special Topics: Language Arts capstone course
EDUC 440  Adolescent Literature
ENGLISH 311  American Literature I
ENGLISH 321  American Literature II

English electives

15 hours of English course work. Select from:  EDUC 414, ENGLISH 305WI, ENGLISH 317, ENGLISH 320, ENGLISH 323, ENGLISH 327 or ENGLISH 330

Electives

6 additional course work in any field to assure 120 hours have been attained.
GRADUATION REQUIREMENTS MIDDLE SCHOOL ENGLISH

- Completion of at least 120 credit hours including all course work listed
- Written English Proficiency Test passed
- Praxis II: Middle School English Language Arts examination passed
- Teacher Work Sample

CONTENT REQUIREMENTS FOR MIDDLE SCHOOL MATHEMATICS

TCH-ED 433 Special Methods of Teaching Middle and Secondary Mathematics
EDUC 489MA Special Topics: Mathematics capstone course
MATH 110 College Algebra

or

MATH 120 Precalculus
MATH 125 Trigonometry

or

MATH 120 Precalculus
MATH 210 Calculus I

or

MATH 244 Mathematics for Teachers: Calculus

Math electives

12 hours of math course work

Electives

3 hours of additional course work to assure 120 hours have been attained.

GRADUATION REQUIREMENTS MIDDLE SCHOOL MATHEMATICS

Completion of at least 120 credit hours including all course work listed

Written English Proficiency Test passed

Praxis II: Middle School Mathematics examination passed
Teacher Work Sample

**CONTENT REQUIREMENTS FOR MIDDLE SCHOOL SCIENCE**

TCH-ED 435 Special Methods of Teaching Science to Middle/Secondary School Students

EDUC 489SC Special Topics: Science capstone course

ENV-SCI 110R Understanding the Earth

ENV-SCI 110L Understanding the Earth Laboratory

TCH-ED 470 History and Philosophy of Science and Technology

GEOG 319 Descriptive and Synoptic Meteorology

Science electives

14 hours of science elective course work

Electives

6 hours of additional course work to assure 120 hours have been attained

**GRADUATION REQUIREMENTS MIDDLE SCHOOL SCIENCE**

Completion of at least 120 credit hours including all course work listed

Written English Proficiency Test passed

Praxis II: Middle School Science examination passed

Teacher Work Sample

**CONTENT REQUIREMENTS FOR MIDDLE SCHOOL SOCIAL STUDIES**

TCH-ED 418 Social Studies Methods in the Elementary and Middle Schools

EDUC 489SS Special Topics Social Studies capstone course

HISTORY 101 American History to 1877

HISTORY 102 American History since 1877

HISTORY 206 World History to 1600

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HISTORY 208  Western Civilization since 1600

HISTORY ____  Non-Western History Elective

GEOG 105  Introduction to the Elements of Geography

or

GEOG 200  World Geography I

ECON 201  Introduction to Economics I

Electives

9 hours of additional course work to assure 120 hours have been attained

**GRADUATION REQUIREMENTS MIDDLE SCHOOL SOCIAL STUDIES**

Completion of at least 120 credit hours including all course work listed

Written English Proficiency Test passed

Praxis II: Middle School Social Studies examination passed

Teacher Work Sample
**Bachelor of Arts: Secondary Education**

The Bachelor of Arts in Secondary Education is to be taken with an emphasis in the subject to be taught. Dual degrees in secondary education and subject area are possible with additional coursework. Check with an adviser for specific information. Successful completion of this program includes a teacher work sample and meeting Missouri state certification testing requirements. This results in eligibility for UMKC's recommendation for secondary education certification (grades 9-12) in Missouri. The subjects available include:

- Art (K-12)
- Biology
- Chemistry
- Earth Science
- English
- Foreign Language (K-12; French, German, Spanish)
- Mathematics
- Physics
- Social Sciences

**Note:** Music Education majors should check degree requirements with the Conservatory of Music and Dance.

General education and subject matter requirements vary with the field to be taught. Students must consult with an adviser to determine specific requirements. Students who already have a bachelor's degree may be required to complete subject area requirements that were not part of their prior degree program in addition to the professional education requirements.

**Subject Matter Areas**

Students must consult with their academic adviser concerning specific requirements. Typically between 30 and 50 hours of subject matter specific coursework is required to attain the subject major.

A 2.75 cumulative GPA is required at completion of the program. Grades of C or better are required in all subject matter and professional education classes. Consult with an academic adviser to determine specific course requirements.

**Secondary Education Course Requirements**

The following courses are required of all secondary education majors:

- **ENGLISH 110** English I: Introduction to Academic Prose
- **ENGLISH 225** English II: Intermediate Academic Prose
- **COMM-ST 110** Fundamentals of Effective Speaking and Listening
- **ENGLISH (various)** Literature course
- **Fine Arts (various)** ART 101, ART 301, ART 302, ART 303, ART 315, ART 319 or **CONSVTY 120, CONSVTY 125 or THEATRE 130**
- **HISTORY 101** American History to 1877
- or
- **HISTORY 102** American History since 1877
- **POL-SCI 210** American Government
- **Social Science (various)** Select class from Economics, Geography, Political Science, Psychology or Sociology

UMKC 2012-13  Education, School of
BIOLOGY 102    Biology and Living
BIOLOGY 102L   Biology and Living Laboratory
Science (various) Select class with laboratory from chemistry, physical science or Earth science
MATH 110+    College Algebra or higher
TCH-ED 403   Educational Psychology
TCH-ED 385   Teaching and Learning with Technology
TCH-ED 404   Education of the Exceptional Child and Youth
TCH-ED 420   Adolescent Development
EDUC 489GT   Gateway to Teaching
EDUC 428   Cultural Diversity and American Education
TCH-ED 408WI Advanced Foundations
TCH-ED 422   Practicum I
TCH-ED 423   Practicum II
TCH-ED 427   Reading in the Secondary Schools
TCH-ED 438   Culturally Responsive Strategies
TCH-ED 437   Student Teaching in the Secondary School

In addition to the courses listed above, each student must select a content area and complete specific content area course work and testing.

Course Requirements for Secondary Education Art

*Students will receive certification to teach K-12 art upon completion of this program.*

ART 112    Foundation Drawing
ART 114    Foundation Digital Design
ART 121    Foundation Design - Two Dimensional
ART 131    Foundation Design - Three Dimensional
ART 212    Intermediate Drawing
ART 221    Introductory Painting
ART 203 or ART 204 or ART 206 or ART 224 or ART 235 or ART 245
ART 300+   6 hours of elective course work in studio art at the junior level or above

*Select two of the three courses below.*

ART 301 or Survey of Western Art I
ART 302 or Survey of Western Art II
ART 303    Survey of Western Art III

*Select one of the two courses below.*

ART 315 or The Arts of African and New World Cultures
ART 319    Asian Arts
ART 400+   At least one class at this level
ART 405    Art in Secondary School
TCH-ED 402 Integrated Arts
EDUC 489AR Special Topics: Art Capstone
TCH-ED 419 Student Teaching in Elementary School and
At present the following three classes are not offered at UMKC but must be completed to meet degree and certification requirements for art.
Ceramics
Graduation Requirements for Secondary Education Art
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: Art: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education Biology

BIOLOGY 108    General Biology I
BIOLOGY 108L   General Biology I Laboratory
BIOLOGY 109    General Biology II
BIOLOGY 109L   General Biology II Laboratory
BIOLOGY 202    Cell Biology
BIOLOGY 206    Genetics
BIOLOGY 303 or Invertebrate Zoology

BIOLOGY 308    Vertebrate Zoology
BIOLOGY 346 or Plant Biology

BIOLOGY 427 Plant Physiology
BIOLOGY 405 Introduction to Evolution
BIOLOGY 200+ 6 hours of 200 level or above biology course work
TCH-ED 470   Philosophy and History of Science and Technology
CHEM 211    General Chemistry I
CHEM 211L   Experimental General Chemistry I
CHEM 212R   General Chemistry II
CHEM 212LR  Experimental General Chemistry II
PHYSICS 210 General Physics I
GEOLOGY 220 General Geology
ENV-SCI 110R Understanding the Earth
ENV-SCI 110L Understanding the Earth Laboratory
TCH-ED 435 Special Methods of Teaching Middle and Secondary Science
TCH-ED 495 Science Capstone

Graduation Requirements for Secondary Education Biology
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: Biology: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education Chemistry

CHEM 211 General Chemistry I
CHEM 211L Experimental General Chemistry I

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
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<tr>
<td>CHEM 212LR</td>
<td>Experimental General Chemistry II</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Organic Chemistry Laboratory I</td>
</tr>
<tr>
<td>CHEM 322R</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Organic Chemistry Laboratory II</td>
</tr>
<tr>
<td>CHEM 330</td>
<td>Elementary Physical Chemistry</td>
</tr>
<tr>
<td>CHEM 387</td>
<td>Environmental Chemistry I</td>
</tr>
<tr>
<td>CHEM 341WI</td>
<td>Analytical Chemistry I: Quantitative Analysis (or 341)</td>
</tr>
<tr>
<td>CHEM 367</td>
<td>Bioorganic Chemistry</td>
</tr>
<tr>
<td>CHEM 382</td>
<td>Inorganic and Organic Synthesis</td>
</tr>
<tr>
<td>TCH-ED 470</td>
<td>Philosophy and History of Science and Technology</td>
</tr>
<tr>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
</tr>
<tr>
<td>BIOLOGY 108L</td>
<td>General Biology Laboratory I</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>General Physics I</td>
</tr>
<tr>
<td>GEOLOGY 220</td>
<td>General Geology</td>
</tr>
<tr>
<td>ENV-SCI 110R</td>
<td>Understanding the Earth</td>
</tr>
<tr>
<td>ENV-SCI 110L</td>
<td>Understanding the Earth Laboratory</td>
</tr>
<tr>
<td>TCH-ED 435</td>
<td>Special Methods of Teaching Middle and Secondary Science</td>
</tr>
<tr>
<td>TCH-ED 495</td>
<td>Science Capstone</td>
</tr>
</tbody>
</table>

Graduation Requirements for Secondary Education Chemistry
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: Chemistry: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education Earth Science
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 150</td>
<td>Introduction to Astronomy</td>
</tr>
<tr>
<td>GEOLOGY 220</td>
<td>General Geology</td>
</tr>
<tr>
<td>GEOLOGY 220L</td>
<td>General Geology Laboratory</td>
</tr>
<tr>
<td>GEOLOGY 302</td>
<td>Environmental Geology</td>
</tr>
<tr>
<td>GEOG 319</td>
<td>Descriptive and Synoptic Meteorology</td>
</tr>
<tr>
<td></td>
<td>15 hours of Earth Science electives</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>General Physics I</td>
</tr>
<tr>
<td>ENV-SCI 110R</td>
<td>Understanding the Earth</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 108</td>
<td>General Biology I</td>
</tr>
<tr>
<td>BIOLOGY 108L</td>
<td>General Biology I Laboratory</td>
</tr>
<tr>
<td>TCH-ED 470</td>
<td>Philosophy and History of Science and Technology</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
</tr>
<tr>
<td>ENV-SCI 110L</td>
<td>Understanding the Earth Laboratory</td>
</tr>
</tbody>
</table>

Graduation Requirements for Secondary Education Earth Science
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: Earth and Space Sciences: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education English
ENGLISH ___WI  English writing Intensive elective (Choose from ENGLISH 301WI, ENGLISH 304WI, ENGLISH 305WI, ENGLISH 307WI, ENGLISH 308, ENGLISH 309WI, or ENGLISH 365WI)
ENGLISH 498  Senior Seminar on Writing
Choose two of the three courses below:
ENGLISH 320 or  Structure of English
ENGLISH 330 or  History of the English Language
EDUC 414  English Language Study

ENGLISH 311  American Literature I
ENGLISH 321  American Literature II
ENGLISH ____  Select one from ENGLISH 300CD, ENGLISH 300CQ, ENGLISH 331, ENGLISH 332WI, ENGLISH 333, ENGLISH 336, ENGLISH 342WI, ENGLISH 344WI, ENGLISH 345WI, ENGLISH 378, ENGLISH 408, ENGLISH 410, ENGLISH 418, ENGLISH 428, ENGLISH 440, ENGLISH 441
ENGLISH 317  British Literature I
ENGLISH 327  British Literature II
ENGLISH ____  Select one from ENGLISH 323, ENGLISH 451 or ENGLISH 461 (Shakespeare)
EDUC 440  Literature for Adolescents
TCH-ED 432  Special Methods on English
TCH-ED 494  English Capstone
11 additional hours of course work in any field to assure at least 120 hours have been completed

Graduation Requirements for Secondary Education English
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: English Language and Literature: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education French
FRENCH 110  Elementary French I
FRENCH 120  Elementary French II
FRENCH 211  Second Year French I
FRENCH 221  Second Year French II
FRENCH 315  Intermediate Conversation and Composition I
FRENCH 325  Intermediate Conversation and Composition II
FRENCH 415  Advanced Conversation and Composition I
FRENCH 425  Advanced Conversation and Composition II

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FRENCH electives  Select 12 hours from FRENCH 301, FRENCH 303, FRENCH 304, FRENCH 350, FRENCH 351, FRENCH 412, FRENCH 414, FRENCH 417, FRENCH 426, FRENCH 435, FRENCH 440, FRENCH 444, FRENCH 445, FRENCH 447, FRENCH 452, FRENCH 454, FRENCH 456, FRENCH 457, FRENCH 463, FRENCH 468, FRENCH 470, FRENCH 471, FRENCH 472, FRENCH 499
FRN-LNG 494  Methods of Teaching Foreign Language
TCH-ED 419  Student Teaching in the Elementary School
FRN-LNG 490  Capstone Foreign Language

4 additional hours of course work in any field to assure at least 120 hours have been completed
Graduation Requirements for Secondary Education French
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: French: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education German
GERMAN 110  Elementary German I
GERMAN 120  Elementary German II
GERMAN 211  Second Year German I
GERMAN 221  Second Year German II
GERMAN 315  Intermediate Conversation and Composition I
GERMAN 325  Intermediate Conversation and Composition II
GERMAN 415  Advanced Conversation and Composition I
GERMAN 425  Advanced Conversation and Composition II
GERMAN electives  Select 12 hours from GERMAN 301, GERMAN 305, GERMAN 306, GERMAN 340, GERMAN 345, GERMAN 350, GERMAN 351, GERMAN 400, GERMAN 411, GERMAN 412, GERMAN 414, GERMAN 421, GERMAN 426, GERMAN 443, GERMAN 480, GERMAN 499
FRN-LNG 494  Methods of Teaching Foreign Language
TCH-ED 419  Student Teaching in the Elementary School
FRN-LNG 490  Capstone Foreign Language

4 additional hours of course work in any field to assure at least 120 hours have been completed

Graduation Requirements for Secondary Education German
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: German: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education Mathematics
MATH 210  Calculus I
MATH 220  Calculus II
MATH 250  Calculus III
STAT 234  Math for Teachers Statistics
or
STAT 235  Elementary Statistics
MATH 300  Linear Algebra I
MATH 301  On Solid Ground: Sets and Proofs
MATH 224  Math for Teachers: Geometry
or
MATH 424  Mathematics for Secondary Teachers: Geometry

COMP-SCI  Computer programming language course
Minimum of 17 semester hours of mathematics at 200+ level
TCH-ED 433  Special Methods of Teaching Middle and Secondary Mathematics
TCH-ED 493  Math Capstone

Graduation Requirements for Secondary Education Mathematics
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: Mathematics: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education Physics
PHYSICS 240  Physics for Science and Engineering I
PHYSICS 250  Physics for Science and Engineering II
PHYSICS 310  Mechanics I
PHYSICS 350  Modern Physics With Engineering Applications
PHYSICS 460  Electricity and Magnetism I
PHYSICS 475LWI Nuclear Physics Laboratories
BIOLOGY 108  General Biology I
BIOLOGY 108L  General Biology I Laboratory
CHEM 211  General Chemistry I
CHEM 211L  Experimental General Chemistry I
GEOLOGY 220  General Geology
ENV-SCI 110R  Understanding the Earth
ENV-SCI 110L  Understanding the Earth Laboratory
TCH-ED 435  Special Methods of Teaching Middle and Secondary Science
TCH-ED 470  History and Philosophy of Science and Technology
TCH-ED 495  Science Capstone

Graduation Requirements for Secondary Education Physics
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: Physics: Content Knowledge passed
Teacher Work Sample

Course Requirements for Secondary Education Social Studies
HISTORY 101  American History to 1877
HISTORY 102  American History since 1877
HISTORY 6 hours of electives in U.S. history numbered 300+
HISTORY 206  World History to 1600
HISTORY 208  World History since 1600

3 hours of electives in non-U.S. history numbered 300+
3 hours of non-Western history
9 hours of electives in history

POL-SCI 210  American Government

3 hour elective in political science
ECON 201  Introduction to Economics I
GEOG 200  World Geography I
VARIABLES 6 hours of behavioral coursework from psychology, sociology or anthropology

TCH-ED 436  Special Methods of Teaching Social Studies to Middle/Secondary School Students
TCH-ED 496  Social Studies Capstone

Graduation Requirements for Secondary Education Social Studies
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: Social Studies: Content Knowledge passed
Teacher Work Sample

**Course Requirements for Secondary Education Spanish**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 120</td>
<td>Elementary Spanish II</td>
</tr>
<tr>
<td>SPANISH 110</td>
<td>Elementary Spanish I</td>
</tr>
<tr>
<td>SPANISH 211</td>
<td>Second-year Spanish I</td>
</tr>
<tr>
<td>SPANISH 221</td>
<td>Second-year Spanish II</td>
</tr>
<tr>
<td>SPANISH 315</td>
<td>Intermediate Conversation &amp; Composition I</td>
</tr>
<tr>
<td>SPANISH 325</td>
<td>Intermediate Conversation &amp; Composition II</td>
</tr>
<tr>
<td>SPANISH 415</td>
<td>Advanced Conversation &amp; Composition I</td>
</tr>
<tr>
<td>SPANISH 425</td>
<td>Advanced Conversation &amp; Composition II</td>
</tr>
</tbody>
</table>

SPANISH electives Select 12 hours from SPANISH 301, SPANISH 303, SPANISH 304, SPANISH 350, SPANISH 351, SPANISH 365, SPANISH 401, SPANISH 402, SPANISH 414, SPANISH 416, SPANISH 417, SPANISH 420, SPANISH 426, SPANISH 427, SPANISH 428, SPANISH 429, SPANISH 450, SPANISH 453, SPANISH 499, SPANISH 468, SPANISH 470, SPANISH 471, SPANISH 472
FRN-LNG 494  Methods of Teaching Foreign Language
FRN-LNG 490  Capstone Foreign Language
TCH-ED 419   Student Teaching in the Elementary School

4 additional hours of course work in any field to assure at least 120 hours have been completed

Graduation Requirements for Secondary Education Spanish
Completion of at least 120 credit hours including all course work listed
Written English Proficiency Test passed
Praxis II: Spanish: Content Knowledge passed
Teacher Work Sample

TCH-ED 435   Special Methods of Teaching Middle and Secondary Science
TCH-ED 495   Science Capstone

*Teacher Education Student Learning Outcomes*

The School of Education subscribes to the Missouri Standards for Teacher Education Programs (MoSTEP).
Missouri Standards for Teacher Education Programs (MoSTEP)
Performance Standards for Education Professionals
The School of Education ensures that candidates possess the knowledge, skills and competencies defined as appropriate to their area(s) of responsibility.

General Education for Initial Teacher Preparation
The School of Education ensures that candidates have completed general studies courses and experiences in the liberal arts and sciences.

Quality Indicators:
- The general studies include the arts, communications, history, literature, mathematics, philosophy, sciences and the social sciences.
- The general studies incorporate multi-cultural and global perspectives.

Content, Professional, Pedagogical and Integrative Studies for Initial Teacher Preparation
The School of Education ensures that candidates have completed a program of content, professional, pedagogical and integrative studies.

MoSTEP Standards/Program Goals
Goal No. 1: The preservice teacher understands the central concepts, tools of inquiry and structures of the discipline(s) within the context of a global society and creates learning experiences that make these aspects of subject matter meaningful for students.
Performance Indicators: The preservice teacher:
1. Knows the discipline applicable to the certification area(s) (as defined by Missouri State Subject Area Competencies).
2. Presents the subject matter in multiple ways.
3. Uses students' prior knowledge.
4. Engages students in the methods of inquiry used in the discipline.
5. Creates interdisciplinary learning.

Goal No. 2: The preservice teacher understands how students learn and develop, and provides learning opportunities that support the intellectual, social and personal development of all students.
Performance Indicators: The preservice teacher:
1. Knows and identifies child/adolescent development.
2. Strengthens prior knowledge with new ideas.
3. Encourages student responsibility.

Goal No. 3: The preservice teacher understands how students differ in their approaches to learning and creates instructional opportunities that are adapted to diverse learners.
Performance Indicators: The preservice teacher:
1. Identifies prior experience, learning styles, strengths and needs.
2. Designs and implements individualized instruction based on prior experience, learning styles, strengths and needs.
3. Knows when and how to access specialized services to meet students' needs.
4. Connects instruction to students' prior experiences and family, culture and community.
Goal No. 4: The preservice teacher recognizes the importance of long-range planning and curriculum development and develops, implements and evaluates curriculum based upon student, district and state performance standards.

Performance Indicators: The preservice teacher:
1. Selects and creates learning experiences that are appropriate for curriculum goals, relevant to learners and based upon principles of effective instruction (e.g., encourages exploration and problem solving, building new skills from those previously acquired).
2. Creates lessons and activities that recognize individual needs of diverse learners and variations in learning styles and performance.
3. Evaluates plans relative to long and short-term goals and adjusts them to meet student needs and to enhance learning.

Goal No. 5: The preservice teacher uses a variety of instructional strategies to encourage students' development of critical thinking, problem solving and performance skills.

Performance Indicators: The preservice teacher:
1. Selects alternative teaching strategies, materials and technology to achieve multiple instructional purposes and to meet student needs.
2. Engages students in active learning that promotes the development of critical thinking, problem solving and performance capabilities.

Goal No. 6: The preservice teacher uses an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning and self-motivation.

Performance Indicators: The preservice teacher:
1. Knows motivation theories and behavior management strategies and techniques.
2. Manages time, space, transitions and activities effectively.
3. Engages students in decision making.

Goal No. 7: The beginning teacher models effective verbal, nonverbal and media communication techniques to foster active inquiry, collaboration and supportive interaction in the classroom.

Performance Indicators: The preservice teacher:
1. Models effective verbal/non-verbal communication skills.
2. Demonstrates sensitivity to cultural, gender, intellectual and physical ability differences in classroom communication and in responses to students' communications.
3. Supports and expands learner expression in speaking, writing, listening and other media.
4. Uses a variety of media communication tools.

Goal No. 8: The preservice teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social and physical development of the learner.

Performance Indicators: The preservice teacher:
1. Employs a variety of formal and informal assessment techniques (e.g., observation, portfolios of student work, teacher-made tests, performance tasks, projects, student self-assessments, authentic assessments and standardized tests) to enhance and monitor her or his knowledge of learning, to evaluate student progress and performances and to modify instructional approaches and learning strategies.
2. Uses assessment strategies to involve learners in self-assessment activities, to help them become aware of their learning behaviors, strengths, needs and progress and to encourage them to set personal goals for learning.
3. Evaluates the effect of class activities on both the individual and the class as a whole, collecting information through observation of classroom interactions, questioning and analysis of student work.

4. Maintains useful records of student work and performances and can communicate student progress knowledgeably and responsibly, based on appropriate indicators, to student, parents and other colleagues.

Goal No. 9: The preservice teacher is a reflective practitioner who applies the ethical practices of the profession and continually assesses the effects of choices and actions on others. This reflective practitioner actively seeks out opportunities to grow professionally and utilizes the assessment and professional growth to generate more learning for more students.

Performance Indicators: The preservice teacher:

1. Applies a variety of self-assessment and problem-solving strategies for reflecting on practice, their influences on students' growth and learning, and the complex interactions between them.

2. Uses resources available for professional development.


Goal No. 10: The preservice teacher fosters relationships with school colleagues, parents and educational partners in the larger community to support student learning and well-being.

Performance Indicators: The preservice teacher:

1. Participates in collegial activities designed to make the entire school a productive learning environment.

2. Talks with and listens to students, is sensitive and responsive to signs of distress and seeks appropriate help as needed to solve students' problems.

3. Seeks opportunities to develop relationships with the parents and guardians of students, and seeks to develop cooperative partnerships in support of student learning and well-being.

4. Identifies and uses the appropriate school personnel and community resources to help students reach their full potential.

Goal No. 11: The preservice teacher understands theories and applications of technology in educational settings and has adequate technological skills to create meaningful learning opportunities for all students.

Performance Indicators: The preservice teacher:

1. Demonstrates an understanding of instructional technology concepts and operations.

2. Plans and designs effective learning environments and experiences supported by informational and instructional technology.

3. Implements curriculum plans that include methods and strategies for applying informational and instructional technology to maximize student learning.

4. Uses technological applications to facilitate a variety of effective assessment and evaluation strategies.

5. Uses technology to enhance personal productivity and professional practice.

6. Demonstrates an understanding of the social, ethical, legal and human issues surrounding the use of technology in Pre-k-12 schools and applies that understanding in practice.
**Undergraduate Programs**
The School of Education offers the following undergraduate degree programs:

- B.A., Early Childhood Education
- B.A., Elementary Education
- B.A., Middle School Education
- B.A., Secondary Education

Students may contact the School of Education Student Services Office for specific program information.

Students may also elect to pursue a dual degree between Education and Arts and Sciences. Secondary education majors may earn a B.A. or B.S. degree in a major in the College of Arts and Sciences. Elementary and early childhood education majors may earn a bachelor of liberal arts degree in the College of Arts and Sciences. Contact the advising office of the College of Arts and Sciences for more details.

**Educational Specialist: Reading Education**

Requirements for the Educational Specialist (Ed.S.) Degree in Reading Education support the professional development of all reading or literacy specialists; including classroom teachers, reading/literacy specialists, and literacy coaches. The Ed.S. degree is intended for those who wish to develop high levels of expertise in the Standards for Reading Professionals developed by the International Reading Association's Committee on Standards and Ethics. The objectives of the Ed.S. in Reading Education are:

1. To ensure that the competencies in the discipline (reading education) have been attained and meet professional agency standards.

2. To develop competencies in:
   - Organizing, supervising and evaluating reading programs and classroom literacy instruction.
   - Translating literacy research findings into practices.
   - Reading/literacy assessment and diagnostic procedures.
   - Teaching reading at the secondary, junior college, college and adult levels.
   - Conducting teacher training workshops at the teacher in-service level.
   - Performing the duties of reading specialist and literacy coach.

**Requirements for Admission**

Candidate must:

- Be admitted to the UMKC School of Graduate Studies.
- Possess a bachelor's degree and a teaching certificate.
- Have at least two years of teaching experience (or its equivalent).
- Have completed a minimum of six credit hours of graduate-level (5500) courses in reading education taken at UMKC. It is not necessary to have a master's degree to enter the program.
Curriculum
A minimum of 60 post-B.A. hours are required including a minimum of 21 credit hours beyond the master's degree.

Curriculum Summary
Hours
Reading Concentration 21-42
Supporting Area(s) 9-12
Practicum 6-12
Humanistic and Behavioral Studies 6-12

Total (minimum) 60

Curriculum Detail
Reading Concentration (21-42 hours) and Practicum (6-12 hours)

EDRD 5502 Early Literacy and Language Development
EDRD 439 Content Reading and Language Development
EDRD 5501 The Teaching of Reading
EDRD 5510 Classroom Based Literacy Assessment and Intervention
EDRD 5511 Reading Assessment and Evaluation
EDRD 5520 Practicum in Reading
EDRD 5515 Seminar in Reading
EDRD 5530 Reading Instruction for K-12 English Language Learners
EDRD 5541 Teaching Reading Improvement: Secondary, College, Adult Level
EDRD 5601 Organizing and Guiding the Reading Program
EDRD 5640 Apprenticeship and Conference in College Training
EDRD 5650 Dyslexia and Related Learning Disabilities
EDRD 5690 Special Problems (Note: Field Project Class)
Supporting Area(s) (9-12 hours)
Select courses from Urban Leadership and/or Curriculum and Instruction

Humanistic and Behavioral Studies (6-12 hours)

EDUC-R&P 5502 Advanced Educational Psychology
EDUC-R&P 5510 Child Behavior and Development
EDUC-R&P 5512 Adolescent Development and the School
EDUC-UL 5525 Cultural Foundations of Education
EDUC-UL 5526 Philosophical Foundations of Education
EDUC-UL 5527 Historical Foundations of Education
EDUC-UL 5528 Sociological Foundations of Education

Requirements for Graduation
Candidates must pass an examination in the major field and complete a reading/literacy field project.
ELPF Student Learning Outcomes

The mission of the UMKC division of Educational Leadership, Policy and Foundations is to prepare and professionally advance educational leaders who are in the fields of Prek-12 and higher education. Faculty members are committed to students to ensure that they become knowledgeable, skilled, and highly effective transformational educational leaders in their schools/educational institutions communities.

Program Goals for Prek-12 Educational Leadership

Program Goal 1 - VISION: Educational leaders have the knowledge, skills, and dispositions required to promote the success of all students by facilitating the development, articulation, implementation, and stewardship of a shared vision of learning, strong organizational mission, and high expectations for every student.

Applicable Standards (ELCC=NCATE Accreditation; ELPS=SLLA Exam; MoSTEP=State Accreditation)

- ELCC Standard 1, Elements 1.1, 1.2, 1.3, 1.4, 1.5
  - Candidates who complete the program are educational leaders who have the knowledge and ability to promote the success of all students by facilitating the development, articulation, implementation, and stewardship of a school or district vision of learning supported by the school community.

- ELPS Performance Expectation 1, Elements A, B, C
  - Education leaders ensure the achievement of all students by guiding the development and implementation of a shared vision of learning, strong organizational mission, and high expectations for every student.

- MoSTEP Standard 1.3.1
  - A school administrator is an educational leader who promotes the success of all students by facilitating the development, articulation, implementation, and stewardship of a vision of learning that is shared and supported by the school community.

Program Goal 2 - SCHOOL CULTURE & INSTRUCTIONAL LEADERSHIP: Educational leaders have the knowledge, skills, and dispositions required to promote the success of all students by supporting a positive and collaborative school culture committed to applying high-quality research and data-based practices to continuously improve student learning and adult professional development programs, providing a rigorous curriculum aligned with content standards, and guiding a comprehensive evaluation and assessment program that includes the role of technology in promoting student learning and professional growth.

Applicable Standards (ELCC=NCATE Accreditation; ELPS=SLLA Exam; MoSTEP=State Accreditation)

- ELCC Standard 2, Elements 2.1, 2.2, 2.3, 2.4
  - Candidates who complete the program are educational leaders who have the knowledge and ability to promote the success of all students by promoting a positive school culture, providing an effective instructional program, applying
best practice to student learning, and designing comprehensive professional growth plans for staff.

- **ELPS Performance Expectation 2, Elements A, B, C**
  - Education leaders ensure achievement and success of all students by monitoring and continuously improving teaching and learning.

- **MoSTEP Standard 1.3.2**
  - A school administrator is an educational leader who promotes the success of all students by advocating, nurturing, and sustaining a school culture and instructional program conducive to student learning and staff professional growth.

Program Goal 3 - ORGANIZATION & MANAGEMENT: Educational leaders have the knowledge, skills, and dispositions required to promote the success of all students by managing the organizational and operational systems, and facilitating the equitable allocation of fiscal, human, and other resources in a way that promotes a safe, efficient, and effective learning environment.

**Applicable Standards** (ELCC=NCATE Accreditation; ELPS=SLLA Exam: MoSTEP=State Accreditation)
- **ELCC Standard 3, Elements 3.1, 3.2, 3.3**
  - Candidates who complete the program are educational leaders who have the knowledge and ability to promote the success of all students by managing the organization, operations, and resources in a way that promotes a safe, efficient, and effective learning environment.

- **ELPS Performance Expectation 3, Elements A, B, C**
  - Education leaders ensure the success of all students by managing organizational systems and resources for a safe, high-performing learning environment.

- **MoSTEP Standard 1.3.3**
  - A school administrator is an educational leader who promotes the success of all students by ensuring management of the organization, operations, and resources for a safe, efficient, and effective learning environment.

Program Goal 4 - PARENTAL & COMMUNITY INVOLVEMENT: Educational leaders have the knowledge, skills, and dispositions required to promote the success of all students by communicating and collaborating with families and other community members, demonstrating cultural competence in sharing responsibilities with diverse members of the school community, and developing mutually beneficial relationships with community organizations to expand available resources to improve teaching and learning.

**Applicable Standards** (ELCC=NCATE Accreditation; ELPS=SLLA Exam: MoSTEP=State Accreditation)
- **ELCC Standard 4, Elements 4.1, 4.2, 4.3**
  - Candidates who complete the program are educational leaders who have the knowledge and ability to promote the success of all students by collaborating with families and other community members, responding to diverse community interests and needs, and mobilizing community resources.

- **ELPS Performance Expectation 4, Elements A, B, C**
Education leaders ensure the success of all students by collaborating with families and stakeholders who represent diverse community interests and needs and mobilizing community resources that improve teaching and learning.

- MoSTEP Standard 1.3.4
  - A school administrator is an educational leader who promotes the success of all students by collaborating with families and community members, responding to diverse community interests and needs, and mobilizing community resources.

**Program Goal 5 - INTEGRITY & ETHICAL LEADERSHIP:** Educational leaders have the knowledge, skills, and dispositions required to promote the success of all students by modeling high expectations and examining assumptions and beliefs that affect student learning, protecting confidentiality of students, staff, and families, continuously improving knowledge and skills, and acting with integrity, fairly, and in an ethical manner.

**Applicable Standards** (ELCC=NCATE Accreditation; ELPS=SLLA Exam: MoSTEP=State Accreditation)

- ELCC Standard 5, Elements 5.1, 5.2, 5.3
  - Candidates who complete the program are educational leaders who have the knowledge and ability to promote the success of all students by acting with integrity, fairly, and in an ethical manner.

- ELPS Performance Expectation 5, Elements A, B, C
  - Education leaders ensure the success of all students by being ethical and acting with integrity.

- MoSTEP Standard 1.3.5
  - A school administrator is an educational leader who promotes the success of all students by acting with integrity, fairly, and in an ethical manner.

**Program Goal 6 - EDUCATIONAL CONTEXT:** Educational leaders have the knowledge, skills, and dispositions required to promote the success of all students by understanding, responding to, and influencing the larger political, social, economic, legal, and cultural contexts affecting education to advocate for students' and teachers' needs.

**Applicable Standards** (ELCC=NCATE Accreditation; ELPS=SLLA Exam: MoSTEP=State Accreditation)

- ELCC Standard 6, Elements 6.1, 6.2, 6.3
  - Candidates who complete the program are educational leaders who have the knowledge and ability to promote the success of all students by understanding, responding to, and influencing the larger political, social, economic, legal, and cultural context.

- ELPS Performance Expectation 6, Elements A, B, C
  - Education leaders ensure the success of all students by influencing interrelated systems of political, social, economic, legal, and cultural contexts affecting education to advocate for their teachers' and students' needs.

- MoSTEP Standard 1.3.6
  - A school administrator is an educational leader who promotes the success of all students by understanding, responding to, and influencing the larger political, social, economic, legal, and cultural context.
Program Goal 7 - INTERNSHIP: The internship provides significant opportunities for candidates to synthesize and apply their knowledge and understanding, to practice and develop the skills, and to refine and clarify the dispositions identified in Program Goals 1-6 through substantial, sustained, standards-based work in real settings, planned and guided cooperatively by the institution and school district personnel for graduate credit.

**Applicable Standards** (ELCC=NCATE Accreditation; ELPS=SLLA Exam; MoSTEP=State Accreditation)
- ELCC STandard 7, Elements 7.1, 7.2, 7.3, 7.4, 7.5, 7.6
  - Internship. The internship provides significant opportunities for candidates to synthesize and apply the knowledge and practice and develop the skills identified in Standards 1-6 through substantial, sustained, standards-based work in real settings, planned and guided cooperatively by the institution and school district personnel for graduate credit.

Upon completion of the master's program, the student will:
- Have a thorough grounding of higher education/student affairs as a field of study
- Understand organizational, management, leadership and supervision theories and issues
- Understand developmental theories as they relate to college students
- Understand professional requirements and ethics of the field
- Develop self-awareness
- Develop multicultural competencies
- Improve communication skill
- Develop skills to use technology to enhance the educational experience
- Develop the ability to analyze and interpret current research in the field
- Increase skills to apply research
- Improve ability to integrate and synthesize information
Graduate Studies, School of
School of Graduate Studies
Administrative Center, Room 300F
5115 Oak Street
(816) 235-1301
graduate@umkc.edu
http://sgs.umkc.edu
Mailing Address University of Missouri-Kansas City
School of Graduate Studies
AC 300F
5100 Rockhill Road
Kansas City, MO 64110-2499

Dean:
Denis M. Medeiros

General Information
The School of Graduate Studies is responsible for monitoring compliance to the campuswide minimum graduate academic regulations, which are explained in detail in the General Graduate Academic Regulations and Information section of this catalog. Working with and through the Graduate Council and Graduate Officers Committee, the School also provides leadership and coordination of all graduate programs, offers programs to prepare graduate students for faculty positions in a variety of educational settings, and administers a number of competitive graduate fellowships.

The School also serves as the academic and administrative home for students admitted to the Interdisciplinary Ph.D. program. All other graduate students are admitted to the school or college in which their degree programs are housed.

- Mission and Administrative Organization of Graduate Education
- Institute for Human Development
  - Interdisciplinary Leadership Certificate in Disability Studies
- Graduate Certificate in College Teaching and Career Preparation
- Interdisciplinary Ph.D. Program
- Program Administration
  - Program Description
  - Doctoral Faculty Participation in the Interdisciplinary Ph.D. Program
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    - Interim Adviser
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- Dissertation Research Proposal Development and Approval
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- Interdisciplinary Ph.D. Student Appeal Process
  - Student Learning Outcomes
  - Interdisciplinary Ph.D. Discipline-Specific Requirements
    - Art History
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    - Computer Science
    - Curriculum and Instruction
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    - Electrical and Computer Engineering
    - Engineering
    - English
    - Entrepreneurship
    - Geosciences
    - History
    - Humanities Consortium
    - Mathematics
    - Molecular Biology and Biochemistry
    - Music Education
    - Oral Biology
    - Pharmaceutical Sciences
    - Pharmacology
    - Physics
    - Political Science
    - Public Affairs and Administration
    - Religious Studies
    - Social Science Consortium: Economics, Political Science and Sociology
    - Telecommunication and Computer Networking
- School of Graduate Studies Courses
Interdisciplinary Leadership Certificate in Disability Studies

The Interdisciplinary Leadership in Disability Studies certificate program is offered through the School of Graduate Studies and the Institute for Human Development. Disability Studies is a relatively new, interdisciplinary field that studies disability from a social and cultural context. The certificate can be completed either in conjunction with a graduate degree program or as a free-standing credential. Students in such diverse fields as sociology, psychology, nursing, pharmacy, law, social work, public administration, urban planning and design and education are well suited for this certificate. Students who receive the certificate will be prepared to influence public policy, professional practice, societal arrangements and cultural values that shape the meaning of disability.

Required courses:

Law 815S: Leadership in Disability Studies: A Multidisciplinary Approach (3 hrs.)

SW 5563 (cross-listed with Psych 541): Life Span Issues in Developmental Disabilities (3 hrs.)

SGS 501: Disability & Community Support, An Academic Service Learning Course (3 hrs.)
(Prerequisite: Law 815S & Psych 541)

Minimum requirements for admission to the Interdisciplinary Leadership Certificate in Disability Studies:

Possession of a baccalaureate degree from a regionally accredited institution is required. Application for admission to the Leadership Certificate in Disability Studies program must be made to the School of Graduate Studies.

Curriculum requirements:

At least 60 percent of the certificate course work must be at or above the 500 level.

Credit hours:

A minimum of 12 credit hours is required for the certificate.

Requirements for retention:

Students must maintain a 3.0 grade point average while enrolled. The minimum acceptable grade for 400 level courses is B, and for 500 level and above courses, B-.

Time limit for completion of certificate program:

All work toward the Leadership Certificate in Disability Studies must be completed in 4 years.
For additional information contact:
Mike McCarthy, M.A. Ed.
UMKC Institute for Human Development
2220 Holmes St., #308, Kansas City, MO 64108
816.235.1745
mccarthyM@umkc.edu
Graduate Certificate in College Teaching & Career Preparation

In today’s competitive academic job market, academic institutions increasingly desire faculty members who not only possess the appropriate academic credentials, but can demonstrate that they are prepared to be excellent teachers and well-rounded colleagues. The 12 credit hour graduate certificate in College Teaching and Career Preparation is intended primarily for doctoral students who are preparing for college-level teaching careers, regardless of the discipline(s) in which they plan to teach; however, individuals who possess a master's degree and who are recommended by a UMKC faculty member in their discipline area may also be considered for admission. The structure of this graduate certificate program balances the emphases on both career exploration and teaching excellence.

The certificate complements the discipline knowledge of existing doctoral and masters programs at UMKC by (1) focusing on strategies for successful teaching, including incorporating technology into the college classroom, and (2) familiarizing students with the demands of college teaching and the nature of the academic environment in a variety of institutions of higher education. Courses that satisfy program requirements are taken for graduate credit; and, upon completion, the certificate is officially noted on the student’s transcript. All courses in the certificate program are taken in addition to those required for the student’s program of study. A nine-member faculty steering committee, with representation from multiple schools and chaired by the Associate Dean in the School of Graduate Studies, administers the program.

Minimum requirements for admission:
Students apply for admission to this Graduate Certificate Program through the School of Graduate Studies. Interdisciplinary Ph.D. students must be recommended by the discipline coordinator in their coordinating discipline. Non-Interdisciplinary doctoral students (Ph.D., DMA, and Ed.D) must be recommended by the primary graduate adviser or program director in their degree programs. Although space in the program is limited and doctoral students will be given first preference, individuals who possess a master's degree, and who are recommended by a UMKC faculty member in their discipline area, may also be considered for admission to the program.

Curriculum requirements:
The Graduate Certificate in College Teaching and Career Preparation requires a minimum of 12 credit hours. A six-course series of Preparing Future Faculty (PFF) seminars is the core of this 12 credit hour graduate certificate curriculum. The seminars are graded on a credit/no credit basis and are offered year-round for five terms. The first four are worth one credit hour each and the final two capstone courses are taken simultaneously in the second spring term for two credits. Students in the PFF Seminar courses not only refine their teaching skills, but also explore the opportunities at, and differences among, a variety of institutions of higher education -- public, private, 2-year and 4-year. For the remaining six credits of the certificate program, students may select a 3-hour teaching practicum course in their field approved by the program director, plus one of the following 3 credit hour on-line courses: EDUC-RP 5639 Educational Psychology: Focus on College Teaching OR EDUC-C&I 5570 Curriculum and Instruction in Technology.

Required Core Courses (at least 4 hrs) EDUC-R&P 5639 Educational Psychology: Focus
On College Teaching (3 hrs.) or
EDUC-C&I 5570 Curriculum and Instruction in Technology

And
SGS 5651A and SGS 5651B Preparing Future Faculty Seminar I and II (2 hrs)
SGS 5652A and SGS 5652B Preparing Future Faculty Seminar III and IV (2 hrs)
SGS 5653A and SGS 5653B Preparing Future Faculty Seminar V and VI (2 hrs)

Requirements for Retention: Students must maintain 3.0 graduate gpa while enrolled and
receive no grade below a B- in courses applied to the certificate program.

Time limit for completion of certificate program: 3 years maximum.
Interdisciplinary Ph.D. Program

Mission, Philosophy and History
The world of the future will require scholars with a global approach to problem solving. It will no longer be enough to know one area, one discipline, one field. Inquiry and discovery are crossing disciplines. For example, the insights of the science of chaos are the products of mathematics, computer science, meteorology, astronomy and biology. Study of aging draws on sociology, psychology, pharmacy, the life sciences and education. For this reason, in 1990, UMKC developed and introduced an interdisciplinary doctoral degree program that spans traditional boundaries among disciplines.

The goal for Interdisciplinary Ph.D. studies at UMKC is to help students develop knowledge and skills for independent research on the fundamental questions of the present and the future. The program is designed to provide self-directed students with academic training at the highest level, while allowing their participation as colleagues in research of fundamental importance. UMKC is dedicated, within the framework of its interdisciplinary program leading to the Ph.D., to provide education of the highest quality.

Scholars in the program fully participate in their own learning, guided by our philosophy that facts must be tempered by values and that true excellence in scholarship demands a far-reaching context of knowledge. The program has grown rapidly. In the fall 2006 term, more than 360 students were enrolled in the Interdisciplinary Ph.D. program. Nearly 350 students have graduated during the program's existence.

The following five core values underscore UMKC's Interdisciplinary Ph.D. program:

Education First: Learning is enhanced by a search for knowledge across discipline boundaries.
Therefore, the program:
- Is student-centered.
- Enables students to acquire the skills of interdisciplinary scholarship and research.
- Broadens students’ exposure to multiple academic fields.

Discovery and Innovation: Interdisciplinary research draws on discipline-based knowledge, generating integrated solutions to problems that cross discipline boundaries.
Therefore, the program:
- Is problem-oriented.
- Integrates the attributes of a broad-based interdisciplinary approach with the grounding of a traditional academic focus.
- Provides a solid grounding in theories, concepts and methodologies of two or more disciplines.

Integrity and Accountability: Self-reflection and individual responsibility.
Therefore, the program:
- Incorporates a model of continuous quality improvement.
Diversity, Inclusiveness and Respect: Learning thrives in an environment open to a diversity of ideas, cultural backgrounds, discipline perspectives and approaches to problems.

Therefore, the program:
- Instills an appreciation of different disciplines.
- Integrates the disciplinary perspectives to give students the methodological and theoretical tools to thrive in a wide range of scholarly and professional environments.

Energized, Collaborative Communities: Society derives great benefit from collaborative efforts that transcend discipline boundaries to solve problems.

Therefore, the program:
Prepares individuals to be multi-functional; to combine disparate skills to solve problems.

Program Administration
Quality control of the Interdisciplinary Ph.D. program rests with those faculty members certified by the University of Missouri to chair and serve on doctoral supervisory committees. These doctoral faculty members are responsible for the design and implementation of a student's doctoral plan of study and for the assessment of the qualifications of a student they recommend to the curators for the Ph.D. degree. To help students formulate an appropriate plan of study, the doctoral faculty are divided into five broad groups corresponding to research interests and expertise. The groupings do not preclude an interdisciplinary plan of study and research involving more than one of these five groups, but are intended only to provide a structure that will assist students and doctoral faculty in developing a plan of study for each Interdisciplinary Ph.D. student. A 15-member executive committee of the doctoral faculty, chaired by the dean of the School of Graduate Studies, formulates the policies that govern Interdisciplinary Ph.D. studies. Ten members of the committee are elected by the doctoral faculty. The chancellor, in view of the election results and in consultation with the dean of the School of Graduate Studies, appoints five members. There are three members from each of the five broad research areas. This process ensures representation from across the primary areas of responsibility assigned to the campus by the curators. The Interdisciplinary Ph.D. Executive Committee is also charged with formulating, monitoring and reviewing goals of the Interdisciplinary Ph.D. program and recommending changes in goals, procedures and policies to the faculty. Any proposed major change must be ratified by the doctoral faculty of the campus.

Doctoral Faculty Participation in the Interdisciplinary Ph.D. Program
On Oct. 7, 1974, the University of Missouri Doctoral Council approved the creation of a UM doctoral faculty to identify, on all four UM campuses, qualified faculty members to direct doctoral dissertations in their disciplines. Uniform minimum standard criteria for doctoral faculty membership apply to all four campuses. In UMKC's Interdisciplinary Ph.D. program, three members of a student's supervisory committee must be regular, adjunct or emeritus members of the UM doctoral faculty, and the research adviser must be from the UMKC campus.

The supervisory committee shall be composed of one doctoral faculty from each of the primary and co-disciplines with a maximum of three from any one discipline. Up to two of the remaining members of each committee can hold either graduate or adjunct graduate faculty status. Final approval of the composition of each supervisory committee shall be obtained in writing by the
adviser (or committee chair) from the Dean of the Graduate school. Where graduate or adjunct graduate faculty are included, the adviser shall provide a strong justification for their inclusion.

For purposes of the Interdisciplinary Ph.D. program, a discipline is defined as an academic unit, such as a department or division (with a chair/head) within a school, college or academic program. To be able to participate as a discipline in the Interdisciplinary Ph.D. program, a discipline, meeting the above definition, must have at least four regular doctoral-faculty members.

**Doctoral Faculty Discipline Affiliation**
Continuing doctoral faculty are reviewed for five-year reappointment and nominations for new appointments are considered throughout each academic year. Consequently, the list of doctoral faculty is dynamic and subject to change. Current lists are available from the School of Graduate Studies.

**Interdisciplinary Doctoral Student Council**
The UMKC Interdisciplinary Doctoral Student Council (originally called the Doctoral Student Association) was formed in 1991 to provide an opportunity for doctoral students to interact with each other and to support the students in their academic and research endeavors. The council sponsors a variety of social and academic programs throughout the year. Membership in the UMKC Interdisciplinary Doctoral Student Council is open to all dually enrolled Interdisciplinary Ph.D. students. Doctoral students in other UMKC programs are eligible to be associate members and are welcome to participate in all Interdisciplinary Doctoral Student Council activities but are not eligible to vote or serve on the executive committee. The council is governed by an executive committee consisting of three representatives with coordinating disciplines in each of the following five areas: physical, mathematical, computer and engineering sciences; biological and chemical sciences; social and behavioral sciences; humanities and the arts; and administrative and information sciences.

**Program Description**
Applicants must meet both the general and the discipline-specific criteria for admission and be recommended for admission by the doctoral faculty review groups in at least two disciplines. Upon approval by the graduate dean, students are admitted to the School of Graduate Studies. The School of Graduate Studies monitors student progress in the program, enforces program regulations and facilitates communication among the disciplines. A discipline coordinator, usually a doctoral faculty member, coordinates admission reviews and tracking of students within each discipline. Doctoral students in this program take coursework and conduct their research in at least two disciplines. The content of their program of study is not predetermined, but formulated by them, in consultation with UMKC doctoral faculty, to meet their individual needs and research interests and satisfy discipline-specific requirements. The program structure and these requirements follow from the five core values of UMKC:

1. Education first
2. Discovery and innovation
3. Integrity and accountability
4. Diversity, inclusiveness and respect
5. Energized, collaborative communities
These core values guide the expectations for our students, who upon graduation will be able to:

1. Demonstrate appropriate depth and breadth of knowledge in their disciplines.
2. Use skills of interdisciplinary scholarship and research to integrate multiple discipline perspectives; and effectively communicate the results of their research to diverse audiences.
3. Use self-reflection for personal and professional improvement.
4. Understand and value diverse approaches to problems.
5. Work effectively in a collaborative environment.

Disciplines participating for the fall 2010 admissions cycle:

**Administrative and Information Sciences**
Entrepreneurship and Innovation (Henry W. Bloch School of Management)
Public Affairs and Administration (Henry W. Bloch School of Management)
*(only available as a co-discipline option)*
Educational Leadership, Policy and Foundations (School of Education)

**Biological and Chemical Sciences**
Cell Biology and Biophysics (School of Biological Sciences)
Molecular Biology and Biochemistry (School of Biological Sciences)
Chemistry (College of Arts and Sciences)
Oral Biology (School of Dentistry)
Pharmaceutical Sciences (School of Pharmacy)
Pharmacology (School of Pharmacy)

**Humanities and Arts**
Art History (College of Arts and Sciences)
English (College of Arts and Sciences)
Music Education (Conservatory of Music and Dance)
Religious Studies (College of Arts and Sciences)

**Physical, Mathematical, Engineering and Computer Sciences**
Engineering (School of Computing and Engineering (SCE))
Geosciences (College of Arts and Sciences)
Mathematics (College of Arts and Sciences)
Physics (College of Arts and Sciences)
Telecommunication and Computer Networking (SCE)
Computer Science (SCE)

**Social and Behavioral Sciences**
Economics (College of Arts and Sciences)
Curriculum and Instruction (School of Education)
History (College of Arts and Sciences)
Social Sciences Consortium: Economics, Political Science and Sociology
*(only available as a co-discipline option)*

The above list of participating disciplines constitutes a dynamic list that can change annually as members are added to or dropped from the doctoral faculty, or as the resources in various academic units change. Applicants should contact the School of Graduate Studies Office for information about modifications to the above list that might have occurred since this catalog was prepared.
Admission to UMKC's School of Graduate Studies' Interdisciplinary Ph.D. program is highly competitive. Enrollment in the program is limited, and admission is granted only to students who have a mature commitment to advanced study and scholarship. Admission is also subject to availability of adequate faculty and other resources within an applicant's chosen disciplines.

After being admitted to the Interdisciplinary Ph.D. program, and no later than the end of the semester in which the student completes his or her comprehensive examinations, each student must satisfy the interdisciplinary doctoral residency requirement by completing at least 21 credits, exclusive of dissertation research (5696-5699), in no more than 18 months. Students may be admitted either provisionally or fully to the program; however, within 24 months of being fully admitted, each student must develop a Plan of Study proposal in consultation with the doctoral faculty members who have agreed to serve on the student's supervisory committee. Although no fixed set of courses is required, students are expected to prepare a rigorous plan of study that includes at least 30 didactic course hours beyond the baccalaureate degree, exclusive of thesis and dissertation research credits. More credit hours may be required by either the student's supervisory committee, the student's disciplines, the Interdisciplinary Ph.D. Executive Committee, or the dean of the School of Graduate Studies. The number of credits included on the plan of study shall be predicated upon the extent of the student's previous academic preparation, the discipline-specific requirements of the student's disciplines, and the nature of the student's field of study.

Students must take and pass a comprehensive examination containing components of each discipline to which they have been admitted to determine if they are ready to advance to candidacy and the final phases of their Ph.D. program. Typically the comprehensive examination will be conducted as the student nears completion of the didactic coursework listed on his or her plan of study. The final phases of the program shall comprise:

- Completion of significant research.
- A written dissertation acceptable to the doctoral faculty.
- Successful oral defense of the research work and dissertation.

**Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission**

When preparing an application for admission, applicants must choose two or more disciplines of primary interest. The applicant also must designate which one of the disciplines is to become the applicant's primary unit for initial advising, record-keeping and receiving/sending mail in the event that admission is granted. A student's research adviser must be affiliated with the student's primary unit discipline.

Application for admission to Interdisciplinary Ph.D. study is made to the dean of the School of Graduate Studies through the UMKC Admissions Office or, in the case of international applicants, through the UMKC International Student Affairs Office (ISAO). For additional program information, applicants should contact the School of Graduate Studies. E-mail requests may be sent to graduate@umkc.edu; the phone number is (816) 235-1161. Application information and an online application system are also available from the Web site: http://www.umkc.edu/iphd/

**Mailing Address** University of Missouri-Kansas City  
School of Graduate Studies  
AC 300F  
5100 Rockhill Road  
Kansas City, MO 64110-2499
The general criteria for admission for Interdisciplinary Ph.D. program study are as follows: Graduate Record Examination (GRE) scores will be evaluated by the disciplines. 

*If an applicant's GRE scores are more than seven years old, and other predictors of ability to do doctoral-level work in the applicant's file are marginal, the applicant may be asked to retake the GRE general test before an admission decision is made*.

A grade-point average of at least 2.75 (on a 4.0 scale) covering all college work taken prior to the bachelor's degree, or a grade-point average of at least 3.0 covering all post-baccalaureate work completed to date.

Recommendation for provisional or full admission by the doctoral faculty review group in at least two participating disciplines.

Graduates of schools outside the United States may be considered for admission to this doctoral program at UMKC, subject to the following criteria.

They must have completed a course of study at least the equivalent of a U.S. baccalaureate degree.

They must have above-average grades in previous college study.

They are required to establish proof of adequate English proficiency as part of the UMKC admissions process. Applicants from countries in which English might be one of the official languages, but is not necessarily the first language of the majority of the population, must attain a minimum composite score of either 550(PBT), 213(CBT) or 80(iBT) on the Test of English as a Foreign Language (TOEFL), or a score of 6.0 on the IELTS to be considered for admission.*

The results of the examination must be received in the UMKC International Student Affairs Office before the application deadline. Exceptions to this policy:

- Non-native speakers who hold degrees or diplomas from post-secondary institutions in English-speaking countries (such as the United States, Antigua, Australia, Bahamas, Barbuda, Belize, Canada, Dominica, Fiji, Gambia, Ghana, Guyana, Ireland, Jamaica, Liberia, Mauritius, New Zealand, Sierra Leone, Solomon Islands, South Africa, St. Christopher (St. Kitts), St. Lucia, St. Vincent, Tobago, Trinidad, Uganda, United Kingdom [England, Scotland, Wales and Northern Ireland], Zambia and Zimbabwe), provided they have spent a minimum of two years in successful full-time study there and English was the medium of instruction.
- International transfer students from other institutions in the United States or Canada who have spent a minimum of two years in successful full-time study.

In addition to 1 through 3 above, international graduate students must satisfy any program-specific admission criteria. For instance, the Graduate Management Admission Test (GMAT) is required for applicants for graduate study toward the M.B.A. degree. Several programs require TOEFL scores that are well above the minimum stated previously. The Graduate Record Examination (GRE), including the appropriate Advanced Test, is either required or strongly recommended for all other international graduate applicants. International students planning to...
apply are directed to consult the appropriate degree program listing for additional criteria and medical requirements.

*In the United States, the Educational Testing Service, Princeton, NJ 08541, U.S.A., can be contacted for application forms to take this test. Contact http://www.ilts.org/ for information on the International English Testing System. Detailed information can be obtained from U.S. embassies, consulates general, bi-national centers and other offices throughout the world.

Participating disciplines may establish whatever additional criteria or higher standards they consider to be appropriate and such discipline-specific criteria will take precedence over the general criteria. Applicants should note that several discipline areas have set more rigorous admission requirements, and a number of discipline areas have established qualifying requirements for students who intend to include that discipline in their doctoral programs. These discipline-specific requirements range from specific prerequisite coursework, to successful completion of a qualifying examination, to having the equivalent of a master's degree in the area, to having higher scores on specific segments of the GRE and are listed in greater detail later in this section.

Students may apply for admission with or without meeting the general criteria of the School of Graduate Studies and any additional criteria established by the discipline areas. Meeting these criteria does not automatically make any student eligible for admission. In exceptional circumstances, students who do not meet the general criteria of the School of Graduate Studies and the disciplines may be admitted.

The School of Graduate Studies' minimum requirements for admission to the Interdisciplinary Ph.D. program are determined by the doctoral faculty in the academic units in which the student will be doing work, and by the UMKC doctoral faculty through representation on the Interdisciplinary Ph.D. Executive Committee. Admission to the program is subject to availability of adequate faculty and other resources within an applicant's chosen disciplines and the approvals of the dean of the School of Graduate Studies and the Interdisciplinary Ph.D. Executive Committee.

**Application Procedure**
The deadlines for applications varies by discipline. Although new students in most disciplines may be accepted in all terms, some disciplines will only consider applications for the fall term. Applicants are responsible for:

Submitting a completed **Application for Admission or Readmission to Interdisciplinary Ph.D. Studies** form to the UMKC Admissions Office, or in the case of international applicants, to the UMKC International Student Affairs Office (ISAO). All applications must be accompanied by the appropriate non-refundable application fee ($35 for domestic applicants or $50 for international applicants).

Submitting a one-page narrative statement outlining professional background and educational plans with the completed application form.
Having the following supplementary documentation sent to the UMKC Admissions Office:

- **Official test scores (GRE, TOEFL, etc.).** The applicant must request the testing agency to send official GRE test scores to the School of Graduate Studies. The Educational Testing Service does not report GRE scores more than 20 years old or scores more than five years old but earned since Sept. 30, 1985.

- **Official transcripts from all colleges attended.** All applicants must submit an official transcript from the school where their bachelor's degrees were obtained. This transcript must show all courses, grades and credits attempted or completed at the undergraduate level. Unless the transcript of the degree-granting institution shows the complete record of undergraduate work taken at all other schools, an official transcript from each of the other institutions must be supplied. In addition, applicants must submit an official transcript from each school where other coursework has been taken or degrees have been obtained after the bachelor's degree.

- **Three letters of recommendation.**

- **Any supplemental material requested by the discipline(s).** Note that several disciplines require professional writing samples, tentative outlines of plans of study, or other supplemental materials to complete the application packet. Applicants should consult the discipline-specific information to determine whether supplemental materials are required by the disciplines they select.

- **Resumes / vita**

**International applicants** must submit the following additional forms:

1. Summary of Education Experiences by Years form.
2. Official Statement of Finances form.
3. If transferring from another U.S. institution, a Supplemental Information form.

All credentials submitted in support of the application for admission to the Interdisciplinary Ph.D. program become UMKC property. They will not be returned to the applicants and UMKC cannot copy them for release to a third party.

Once the UMKC Admissions Office or the ISAO has received the application, application fee (if applicable), and transcripts of previous work, the application file is transmitted to the School of Graduate Studies. The School of Graduate Studies notifies each applicant by mail when the application packet has been forwarded to them. If required test scores, recommendation forms or supplementary documentation appropriate to the applicant's discipline selections are missing at that time, the applicant will be advised of the date by which all materials must be received in order to have the application reviewed by the faculty review groups in the specified disciplines for admission in the terms requested. The School of Graduate Studies transmits completed application files to the doctoral faculty review groups in each discipline the applicant has indicated on the application form.

Faculty review groups usually will not take action on an application unless all supporting documentation is on file. Applicants with files that are incomplete at the time the discipline(s) review applications will be so notified and asked whether they wish to have their applications updated for consideration for admission in a subsequent term.
An applicant can expect the review and recommendation process to take approximately 30 days from the time all supporting documentation has been received. The faculty review groups in some disciplines review all applications as a group, while in other disciplines, applications are reviewed and acted upon on a revolving basis, as received. The review and recommendation process within the disciplines varies in length depending upon the disciplines' review policies.

For questions about the contents of their admission files, or to determine whether their applications have been transmitted to the School of Graduate Studies for review, applicants may call the Admissions Office (816) 235-1111. International applicants may check on the status of their applications by contacting the ISAO at http://www.umkc.edu/isao/. Once the application has been transmitted to the School of Graduate Studies, applicants may call (816) 235-1161 for information on the status of their applications.

**Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements**

The following requirements pertain specifically to students pursuing Interdisciplinary Ph.D. programs. However, Interdisciplinary Ph.D. students are subject to, and also should refer to, those regulations common to all graduate students and the dissertation requirements common to all doctoral students included in the General Graduate Academic Regulations and Information section of this catalog. Students should also consult the specific requirements for the disciplines to which they have been admitted. Where discipline requirements are more stringent than the general requirements, the discipline requirements take precedence.

Once a student is admitted to Interdisciplinary Ph.D. study, any change of disciplines requires a full review process by the disciplines, similar to the initial admission review. Forms to initiate this review may be obtained from the School of Graduate Studies or downloaded from their Web site: http://www.umkc.edu/iphd.

Once an Interdisciplinary Ph.D. student is admitted to the School of Graduate Studies, the dean, upon recommendation from the student's disciplines, identifies a doctoral-faculty member from each discipline to serve as the student's interim adviser in that discipline. Students who have had minimal prior graduate study will be encouraged to explore research opportunities before choosing fields of endeavor.

As the student progresses and develops focused research interests, the interim advisers are expected to assist in identifying potential research advisers among doctoral-faculty members in appropriate research areas with whom the student can discuss research plans. The interim advisers also provide academic guidance until the student selects a research adviser, has satisfied all qualifying requirements and is classified as fully admitted. The interim adviser in the student's primary-unit discipline reports on the student's progress to the dean of the School of Graduate Studies. If another faculty member has not been identified as the research adviser by the time the student is fully admitted and ready to formulate the plan of study, the interim adviser in the primary-unit discipline will automatically become the student's research adviser.

Admission to the Interdisciplinary Ph.D. program is granted on a provisional or fully admitted basis as determined by the doctoral faculty review group of the student's chosen discipline(s). Upon their acceptance as provisional Ph.D. students, applicants are notified of the specific qualifying requirements they must satisfy before they can be classified as fully admitted Ph.D. students. Provisional admission
does not guarantee advancement to full admission, and full admission does not guarantee advancement to Ph.D. candidacy.

At the end of each academic year, the interim adviser reports the provisional Ph.D. student's progress toward satisfying the qualifying requirements to the dean of the School of Graduate Studies. When all qualifying requirements have been completed, the interim adviser requests that the student's classification be changed to fully admitted.

The chair and a majority of the members of a student's supervisory committee must be from disciplines certified as eligible to participate in the Ph.D. program. The student's research adviser must be a regular doctoral faculty member from the student's primary-unit discipline.

The adviser assists the student in identifying other members of the doctoral faculty to form a supervisory committee appropriate to the student's research goals. A request for appointment of supervisory committee is included as part of the written proposal for the student's Ph.D. plan of study.

The supervisory committee shall be composed of one doctoral faculty from each of the primary and co-disciplines with a maximum of three from any one discipline. Up to two of the remaining members of each committee can hold either graduate or adjunct graduate faculty status. Final approval of the composition of each supervisory committee shall be obtained in writing by the adviser (or committee chair) from the Dean of the Graduate school. Where graduate or adjunct graduate faculty are included, the adviser shall provide a strong justification for their inclusion.

An outside reader may also be included on the supervisory committee as a non-voting member.

**Annual Evaluation of Progress**

During the spring semester, Interdisciplinary Ph.D. students, using forms provided by the School of Graduate Studies, must submit a summary of their accomplishments over the previous year and a projection of the progress they intend to make during the next academic year. Forms are submitted to their interim advisers or, if their supervisory committees have been formed, to the chairs of their supervisory committee. The faculty adviser or supervisory committee chair will review the student's report and meet with the student to discuss the student's progress and plans for the coming year. They will provide the student and the School of Graduate Studies with a copy of the completed evaluation form. Failure to meet this requirement may result in a hold being placed on the student's enrollment.

Within 24 months of admission, a student chooses a research adviser and forms a supervisory committee. In consultation with the research adviser and other members of the proposed supervisory committee, the student prepares a proposed Ph.D. plan of study, obtains all required signatures and submits the proposed plan to the School of Graduate Studies for review and final approval by the Interdisciplinary Ph.D. Executive Committee. This submission must occur within 24 months of being admitted to the program. In addition to any coursework completed prior to admission that is being credited toward discipline-specific requirements, the written Interdisciplinary Ph.D. plan of study includes courses and other activities at UMKC that should normally be completed approximately two years from the time the Ph.D. student is fully admitted, a statement about overall plans for study and research, and a list of the proposed members of the supervisory committee.
The Interdisciplinary Ph.D. Plan of Study Guidelines:

- The plan of study must include coursework from all the student's disciplines and must satisfy all of the applicable discipline-specific core requirements.
- The plan of study must include at least 30 didactic hours beyond the baccalaureate degree, exclusive of thesis or dissertation research hours, in courses taken at UMKC or courses taken at another institution and approved for transfer by the student's supervisory committee.
- Didactic coursework on the plan of study will include a minimum of nine credit hours in a co-discipline area.
- No more than 60 percent of the total coursework taken at UMKC and listed on the plan of study, exclusive of thesis or dissertation research hours, will be in any one discipline.
- All plans of study must include a minimum of 12 hours of dissertation research (5696-5699) credit.
- At least two-thirds of the total courses included on the plan of study must be numbered 5500 or above if taken at UMKC, or, if taken from an institution with a course-numbering system that differs from UMKC's, they must be courses intended primarily for graduate students.
- UMKC courses at the 100 and 200 levels, and courses with equivalent lower-division numbers taken at another institution, are not available for graduate credit and may not be applied toward the hours required for the degree nor included in the discipline percentages.
- At least 75 percent of the coursework on the plan, exclusive of dissertation credits, must be in disciplines certified as eligible to participate in the Interdisciplinary Ph.D. program.
- Students' needs will be examined on a case-by-case basis by their supervisory committees, and appropriate language or related research skill requirements will be incorporated into each student's plan of study.
- The plan of study will include a brief description of the course focus and the name of the supervising professor for any independent study courses listed.
- The plan of study will specify which courses are being used to satisfy the residency requirement.
- The plan of study will outline the comprehensive examination expectations.
- The plan of study will include a preliminary research proposal for the dissertation research, including key bibliographic references.

If modifications to discipline-specific requirements are made after the student is admitted, the student has the option of proceeding under either the requirements in place at the time he or she entered the Ph.D. program or the current requirements.

Plan of Study Approval Process

Once the supervisory committee members and student have agreed on and signed the plan of study, appropriate academic officers corresponding to the student's choice of disciplines [dean(s) or program director(s), department chair(s), division head(s), etc.], must then review and certify by signature that the courses and all other resources are currently available at UMKC and in the respective units for the student to initiate the plan of study. The student then submits the certified plan of study to the dean of the School of Graduate Studies for review and approval by the appropriate subcommittees of the Interdisciplinary Ph.D. Executive Committee.

The subcommittees of the Interdisciplinary Ph.D. Executive Committee will accept Ph.D. plan of study proposals for review only if:

- The Ph.D. coursework falls within the guidelines outlined above.
- The student will enroll at UMKC for dissertation credit under the supervision of a UMKC member of the UM doctoral faculty.
- The plan includes written assurance from the appropriate academic officers that:
a. adequate faculty, laboratories, library support and all other necessary resources are presently available at UMKC to support the proposed Ph.D. plan of study, and
b. the courses included in the plan are either presently available at UMKC or can be taken by the student as a visiting student in a time period less than that required to satisfy the residency requirements on the other campus.

The appropriate Interdisciplinary Ph.D. executive committee subcommittees will review the certified plan of study within 60 calendar days and will either recommend to the dean of the School of Graduate Studies approval of the plan as presented or will return the plan to the student with recommendations for modification. Once the proposed plan of study and supervisory committee are approved by the Interdisciplinary Ph.D. executive committee, the dean of the School of Graduate Studies will confirm the appointment of those doctoral-faculty members who will serve as the student's supervisory committee and file the plan with the registrar. Any further modifications of the plan of study must be made in consultation with the student's supervisory committee and major modifications must be approved by the Interdisciplinary Ph.D. Executive Committee.

Interdisciplinary Ph.D. students must satisfy the doctoral residency requirement by satisfactory completion of at least 21 credits, exclusive of dissertation research, in no more than 18 months. When satisfying the residency requirement, all Interdisciplinary Ph.D. students are subject to the following restrictions:

1. The doctoral residency requirement must be satisfied no later than the end of the semester in which the student completes his or her comprehensive examinations.
2. Students must achieve a cumulative graduate grade-point average of at least 3.0 in all courses counted toward satisfying the residency requirement.
3. Dissertation research credits (5696-5699) may not be counted toward satisfying the doctoral residency requirement.

Interdisciplinary Ph.D. plans of study are tailored to the needs of individual students based on their prior academic work as evidenced by transcripts and other credentials. An approved plan of study may recognize class work from other institutions as determined by the student's supervising committee, either as qualifying courses or as relevant to a program of study.

To advance to degree candidacy, Interdisciplinary Ph.D. students are required to pass a comprehensive examination that integrates components of each discipline to which they have been admitted. Either the written or oral or both component(s) of the comprehensive examination must include an evaluation of the student’s ability to integrate content, theory and/or methods from each specified discipline. The doctoral comprehensive examinations must be completed at least seven months before the date of graduation. The following requirements must have been met before students can take the comprehensive examination(s):

1. Successful completion of all qualifying requirements and full admission to the School of Graduate studies.
2. Appointment of a research adviser and supervisory committee.
3. Filing and approval of the Ph.D. plan of study and completion of essentially all coursework or other study required for the degree.

The student must be enrolled when taking the comprehensive examination. Comprehensive examinations are not administered when UMKC is not officially in session. The comprehensive examination may be written, oral or both. A student, through his or her adviser, applies to the dean of the School of Graduate Studies for an examining committee. This committee consists of members of the student’s supervisory
committee and others approved by the dean of the School of Graduate Studies. The examination is arranged and conducted by the examining committee. Upon completion of the examination, the student’s research adviser sends a report of the results, carrying the signatures of all members of the examining committee, to the dean of the School of Graduate Studies, who then informs the student and the registrar. A student is considered to have passed the comprehensive examination if no more than 20 percent of the committee members vote for failure of the student. If failure is reported, the examining committee will either recommend termination as a Ph.D. student or suggest additional work or other remedial measures. Furthermore, a student who has failed may not take a second examination for at least 12 weeks. Failure of the second comprehensive examination shall automatically preclude candidacy at this institution.

The doctoral student must take and pass the doctoral comprehensive examination and advance to candidacy within five years from the beginning of doctoral coursework (within four years if entering with a master's degree in the same or closely related field). After the establishment of degree candidacy, a maximum of five years will be allowed for completion of degree requirements. Failure to complete the work within the periods specified will necessitate re-evaluation of the entire program and may result in a notice of termination. In compelling circumstances and on the written recommendation of a majority of the student's supervisory committee members, the dean of the School of Graduate Studies may grant a one-year extension. Some academic units may impose more stringent time requirements.

The student's supervisory committee must approve the research activities associated with a dissertation. These activities must be performed under the direct and continuing supervision of the supervisory committee chair. If the proposed research involves the use of human subjects, animals or radioactive materials, the student and the research adviser must obtain prior written approval of the proposed research by the appropriate Institutional Review Board, the Animal Care and Use Committee or the Radiation Safety Committee.

For the approval process, the Ph.D. candidate must submit a brief dissertation research proposal. The dissertation proposal shall include the following:

- An abstract.
- A statement regarding the general purpose of the research.
- Background information, including a review of the relevant literature, the rationale for the research and a concise statement of the hypotheses to be investigated and/or the research questions to be answered.
- Methods.
- Appropriate protocol or application if human subjects, animals or radioactive materials are to be used in the research.

This proposal must be approved in writing by all members of the student's supervisory committee and filed with the School of Graduate Studies. It is in the best interest of the Ph.D. student to complete the approval process of the dissertation research proposal before significant progress is made on the completion of the dissertation. Any important changes in the research outlined in the proposal must be approved by the supervisory committee.
**Doctoral Dissertation Requirement**

All UMKC Ph.D. degrees require a dissertation as the final component of the program. The doctoral faculty view the dissertation as one of the most important aspects of the student's experience because:

- It is a work of original research or scholarship that makes a contribution to existing knowledge.
- It is an educational experience that demonstrates the candidate's mastery of research methods and tools of the specialized fields.
- It demonstrates the candidate's ability to address a major intellectual problem.

For regulations pertaining to formatting the dissertation and the process for approval, the reader is directed to Thesis and Dissertation Preparation and Approval Process, included under Graduate Academic Regulations in this catalog section.

**Final Dissertation Examination**

Final examinations in defense of the dissertation are open to all members of the doctoral faculty, who may attend as interested observers. The format and procedures of the defense are determined by the supervisory committee and its chair. The date, time and location must be announced and published at least two weeks before each final examination takes place. This examination may be conducted only after the dissertation has been approved by the dean of the School of Graduate Studies, and may not be administered when UMKC is not officially in session.

The defense of the dissertation is approved when a majority of the supervisory committee recommend approval and sign the Report of the Result of Final Doctoral Examination form. Within 48 hours of the defense, the supervisory committee chair will report the results of the final dissertation examination in writing to the candidate.

**Deposit of Approved Dissertation with Libraries**

For regulations pertaining to deposit of the approved dissertation with the libraries, please refer to Thesis and Dissertation Preparation and Approval Process, included under Graduate Academic Regulations in this catalog section.

Students should process any petitions for waiver of policy or other academic appeals to their interim advisers or research advisers. The advisers should attach their recommendation and forward the request to the doctoral faculty review groups within the disciplines.

If the appeal does not require a policy decision, action on the appeal may be handled at the discipline level. If a policy decision is required or if, after action by the discipline, the student wishes a higher level of review of the case, the appeal or petition, complete with documentation of all reviews up to that point, may be forwarded to the dean of the School of Graduate Studies for action or referral to the appropriate subcommittees of the Interdisciplinary Ph.D. Executive Committee.
Mission and Administrative Organization of Graduate Education

UMKC currently offers more than 50 graduate degrees at the master's, educational specialist and doctoral levels, plus a number of graduate certificates. Graduate students represent about 26 percent of the total campus enrollment. The graduate student population is diverse in ethnicity, gender and racial background. As an urban university, our programs strive to accommodate adult working students. Nearly two-thirds of all graduate students are enrolled part time and the average age is 35.

The Graduate Council, representing a cross section of campus graduate faculty, sets policy, establishes minimum graduate education standards and monitors the quality of graduate education at UMKC. The graduate faculty in the various graduate degree programs may set standards more stringent than the minimums outlined in this catalog section, and in such cases, the program standards take precedence over the campuswide minimum regulations. The School of Graduate Studies is responsible for monitoring compliance to the campuswide minimum graduate academic regulations; providing leadership and coordination of all graduate programs; and serves as the academic home for students admitted to the Interdisciplinary Ph.D. program. Information on the Interdisciplinary Ph.D. program may be found in the School of Graduate Studies section of this catalog.

Interdisciplinary Ph.D. Discipline-Specific Requirements

All Interdisciplinary Ph.D. applicants and students must first meet the general requirements of the School of Graduate Studies for admission and retention in the Interdisciplinary Ph.D. program. (General Graduate Academic Regulations and Information, Application Procedure and Minimum Criteria for Admission, Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.) In addition to these general academic regulations that have been outlined in previous sections of the general catalog, disciplines may set more stringent discipline-specific requirements that take priority over the general requirements. Discipline-specific requirements for disciplines eligible to participate in the Interdisciplinary Ph.D. program are listed in alphabetical order by name of discipline. These guidelines are subject to ongoing review and revision, and the doctoral faculty reserves the right to make judicious changes in discipline-specific requirements. The student is referred to coordinators in the disciplines for the most current information.

Student Learning Outcomes

The course requirements for the program are not predetermined, but rather formulated by the student in consultation with the UMKC doctoral faculty who will serve on their supervisory committee, to meet the student's individual needs and research interests, satisfy discipline-specific requirements and assure upon graduation students are able to:

- Demonstrate appropriate depth and breadth of knowledge in their disciplines.
- Use skills of interdisciplinary scholarship and research to integrate multiple perspectives.
- Work effectively in a collaborative environment.
- Effectively communicate results of their research to diverse audiences.
- Understand and value diverse approaches to problems.
- Use self-reflection for personal and professional improvement.
Art History

Discipline Coordinator Burton Dunbar, (816) 235-2531, dunbarb@umkc.edu
Click here to see Art and Art History faculty who are members of the doctoral faculty.

Art History is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
In addition to the general criteria for admission, applicants will be expected to have an undergraduate degree in art history, anthropology or history and an undergraduate minimum GPA of at least 3.0 on a 4.0 scale. An M.A. in art history is desired. Prerequisite coursework: Survey of World Arts. New students will be considered for admission for fall and spring semesters. Submit applications by Jan. 31 for fall admission or Sept. 1 for spring. In addition to the required application form, test scores, recommendations and transcripts, applicants must provide a written research plan and a research writing example. Presently only students with an interest in non-Western arts are encouraged to apply.

Suggested Compatible Co-disciplines
Curriculum and instruction, economics, English, history, and religious studies.

Core Requirements

Art History as a Primary Discipline
Required courses:
- ART-HIST 5501 Scope and Methods of Art History*
- ART-HIST 5573 Visual Arts Administration*
* Research methodology courses.
Remaining credits depend upon what courses the student has taken before coming into the program. Students will generally design a total plan of study (primary discipline and co-discipline coursework) that includes 60 hours beyond the baccalaureate degree or 30 hours beyond the master's degree if in Art History.

Art History as a Co-discipline
Required courses:
- ART-HIST 5501 Scope and Methods of Art History
- Seminars in African, African-American, MesoAmerican or Native American Arts.
Remaining credits depend upon what courses the student has taken before coming into the program.

Requirements for Comprehensive Exams
Oral and written comprehensive exams are required, with questions based on courses taken.

Other Discipline-Specific Special Requirements
Two foreign language requirements as determined by the Faculty Advisory Committee for each student. Students will master a reading knowledge of two foreign languages for art history as a primary discipline or as a co-discipline. The foreign language requirement should be satisfied by the time 18 hours of
graduate credit have been taken toward the Interdisciplinary Ph.D. The Faculty Advisory Committee must include two art historians. Students must meet with their Faculty Advisory Committee at least once each semester. Students must complete Annual Evaluation forms each spring.
Cell Biology and Biophysics

Discipline Coordinator Karen Bame, (816) 235-2243, bamek@umkc.edu
Click here to see Cell Biology and Biophysics faculty who are members of the Doctoral Faculty

Cell Biology and Biophysics is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
No additional requirements. Due to the sequencing of coursework, new students selecting cell biology and biophysics as their primary discipline will normally only be admitted in the fall term. In general, initial admission will be granted into an M.S. track leading to full admission to the Ph.D. program.

Minimum of 16 hours of approved graduate coursework at UMKC toward the Ph.D. program with a grade-point average of at least 3.0 on a 4.0 scale. International students must establish English proficiency.

Suggested Compatible Co-disciplines
Chemistry, molecular biology and biochemistry, pharmaceutical science, pharmacology, oral biology, and physics.

Core Program Requirements
Cell Biology and Biophysics as a Primary Discipline

Minimum Core
33 credit hours of courses and 15 credit hours of dissertation research for a total of 48 credit hours of post-baccalaureate credits, distributed as indicated below. The core courses should be completed by the end of the second academic year after admission to the graduate program on a full-time basis (individual arrangements will be made for part-time students).

33-credit-hour minimum core of courses and competencies.

- 13 credits in cell biology and biophysics (5500-level or higher), including:
  - LS-CBB 5596 or LS-CBB 5597 Advanced Experimental Cell Biology and Biophysics (two credits)
  - LS-CBB 5612 Seminar in Cell Biology and Biophysics (two credits)
  - LS-CBB 5530 Cellular and Molecular Biology I (three credits)
  - LS-CBB 5520 Cellular and Molecular Biology II (three credits)
  - LS-CBB 5501 Graduate Biophysical Principles

- An additional 3 credits selected from among the following three-credit-hour courses: LS-CBB 5566 Membrane Biochemistry, LS-CBB 5569 Structural Biology, LS-CBB 5504 Graduate Virology, or LS-CBB 5505 Molecular and Cellular Neurobiology.

- LS-CBB 5690/LS-MBB 5690 Analytical Methods (five credits)

- 12 credits in related disciplines. Related disciplines are molecular biology and biochemistry, chemistry, pharmaceutical sciences, pharmacology and oral biology, although others are not precluded.

Seminar courses are part of this component of required courses, up to a maximum of three for the program, as are additional credits of Advanced Experimental Molecular or Cell Biology (a total of four
credits in experimental laboratory courses, independent of thesis research, is required). 5700-level courses may not be used to satisfy cell biology and biophysics discipline-specific course requirements.

Any of the above courses, whether part of the primary or related discipline requirements, will be credited toward the 30-credit Ph.D. course requirement if taken as part of any graduate program at UMKC and if a grade of "B" or better is received.

- At least 15 credit hours of dissertation research in cell biology and biophysics.

In addition to the basic 30-credit course core, each student's Faculty Advisory Committee may require up to nine credit hours in additional elective courses in any University-approved doctoral discipline as preparation for specific areas of research. No more than seven credit hours of 5500-level courses, or their equivalents, can be taken at institutions outside UMKC.

For Students with Cell Biology and Biophysics as a Co-discipline

Students who select this discipline as a co-discipline must take a minimum of 11 credit hours of core courses, plus seminars, including the following:

- LS-MBB 5561 General Biochemistry I (four credits)
- LS-MBB 5562 General Biochemistry II (four credits)
- LS-CBB 5612 or LS-MBB 5611 (1 credit)
- A sufficient amount of other core courses to constitute the required percentage of their overall program of study. 5700-level courses may not be used to satisfy cell biology discipline-specific course requirements.

Requirements for Comprehensive Exams

Full-time students with cell biology as their primary discipline must take their comprehensive examination before the beginning of the third academic year after admission to Ph.D. study. Part-time Ph.D. students in this discipline must complete their comprehensive examination immediately after completion of the 25-hour course requirement on their Ph.D. plan of study.

Format

For students with this discipline as their primary discipline, written and oral examinations are required.

Written Portion

The written examination, for students who have cell biology and biophysics as their primary discipline, has two components. The first component consists of a written, general comprehensive examination testing an integrated knowledge of material acquired through the courses and the seminar series in the primary discipline and co-discipline. The second component of the written examination consists of an NIH-style grant proposal that the student will prepare. The topic of the research proposal will be determined by the student in consultation with the student's supervisory committee.

Oral Portion

The oral examination has two aspects: (1) questions covering the grant proposal prepared by the student for the written examination and (2) other related material in the student's area of specialization, including fundamental knowledge of the student's chosen disciplines.

Other Discipline-Specific Special Requirements

Students with this discipline as a primary discipline must participate in the teaching program of the School of Biological Sciences.

Students with this discipline as a primary discipline or co-discipline must participate in seminars.

Retention in Program
No more than one C grade will be permitted in basic core coursework. If a student with this discipline as the primary discipline receives more than one C grade in a basic course, he or she will be dropped from the doctoral program. Students with this discipline as a co-discipline who receive more than one C grade will be dropped from the discipline.

A minimum grade of B in LS-MBB 5561 and LS-MBB 5562 is required to remain as a doctoral student in this discipline.

For students with this discipline as their primary discipline, no more than two C grades will be allowed in any courses and no D or F grades are permitted. A student who receives more than two C grades or a D/F grade will be recommended for termination from the doctoral program.

The doctoral faculty in cell biology and biophysics meets formally at the end of each academic year to discuss and evaluate all graduate students' progress. Each student's committee also meets with the student at least once a year. After the annual doctoral-faculty meeting, each student receives a written evaluation of his or her status and a report is placed in the student's file.
Chemistry

**Discipline Coordinator** Kathleen Kilway, (816) 235-2289, kilwayk@umkc.edu

Click here to see Chemistry faculty who are members of the doctoral faculty.

Chemistry is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-specific Admission Requirements**

*Chemistry as a primary discipline*

Normally, only applications to full-time academic status will be considered. To qualify for full admission (Note: full admission is unrelated to full-time academic status), applicants are expected to have the equivalent of an American Chemical Society-approved bachelor's degree in chemistry, which includes coursework in general chemistry, analytical chemistry, one year of organic chemistry, inorganic chemistry and one year of physical chemistry requiring calculus and physics as prerequisites. (For example, see UMKC's B.S. program in the Chemistry section in this catalog.) Applicants will be admitted as provisional students with a limited number of undergraduate deficiencies. They will be notified, at the time admission is offered, of any requirements to be met for reclassification as fully admitted. Undergraduate courses included in these requirements must be completed with grades of "C" or higher.

Applications are only accepted through the online system, and include:

1. Official, confidentially transmitted transcripts.
2. Statement of purpose.
3. Two confidentially transmitted letters of recommendation (academic and/or professional).
4. Official Graduate Record Exam (General Test) score, less than six (6) years old.
5. English language proficiency requirement.

An official Graduate Record Exam score (general test) is required as part of the application to the program. The GRE score will be evaluated as part of the entire application.

**Suggested Compatible Co-disciplines**

Curriculum and instruction, engineering, geosciences, mathematics, pharmaceutical sciences, physics, and pharmacology.

*Chemistry as a Co-discipline*

Applicants are expected to have undergraduate coursework in general chemistry and organic chemistry. Applicants accepted as provisional students will be notified, at the time admission is offered, of any requirements to be met for reclassification as fully admitted. Undergraduate courses included in these requirements must be completed with grades of "C" or higher.

**Core Program Requirements**

*Chemistry as a Primary Discipline*

**Coursework Requirements**

Students are to see the principal graduate adviser, or their research adviser, for advising and signature prior to registering each semester.

Students must successfully complete a minimum of one course from Group A; one course from Group B; one additional course from Group A or B; one elective course (three credit hours) from any course.
numbered 5500 or above, except for those excluded below; and one credit hour of chemistry seminar (CHEM 5611). A grade of C+ (2.3) or less in more than two chemistry courses applicable to the Ph.D. program will result in termination from Ph.D. candidacy.

Group A: CHEM 5531, CHEM 5532, CHEM 5533, CHEM 5534, CHEM 5535 and CHEM 5541R
Group B: CHEM 5521R, CHEM 5522, CHEM 5551R and CHEM 5571R
Excluded as electives: CHEM 5511, CHEM 5512, CHEM 5520R, CHEM 5530, CHEM 5540R, CHEM 5590, CHEM 5595, CHEM 5598, CHEM 5599, CHEM 5611, CHEM 5612, CHEM 5613, CHEM 5699, CHEM 5899.

In addition, students must successfully complete nine credit hours of 400-level or above coursework in their co-discipline(s). (A minimum of three of these credit hours must be at the 5500+ level.) Students may be required to take additional courses as outlined by their plan of study.

Any of the above chemistry courses will be credited toward the Ph.D. coursework requirement if taken as part of any previous graduate program at UMKC and a grade of B- (2.7) or better is received. Also, students who have received a grade of B- (2.7) or better in graduate chemistry coursework taken as part of a degree program at another institution may have up to six credit hours of equivalent required coursework waived upon approval of a majority of the supervisory committee. A written request for this waiver is to be submitted and approved before submission of the student's plan of study.

Courses/Experiences Providing Instruction in Research Methodology
Expertise in research methodology will be acquired under the mentorship of the research adviser and supervisory committee. The student's progress will be assessed annually by his/her supervisory committee and the results will be forwarded to the School of Graduate Studies.

Number of Credit Hours Required beyond Bachelor's Degree
A minimum of 13 credit hours of chemistry courses (including chemistry seminar) and 24 credit hours of dissertation research, plus a minimum of nine credit hours of co-discipline courses are required. However, up to six credit hours of chemistry may be waived, as described above under Coursework Requirements.

Chemistry as a Co-discipline
Coursework Requirements
Students are required to complete a minimum of three courses (nine credit hours) at the 400-level or above from classes offered by the Department of Chemistry or in conjunction with other units as approved in the student's plan of study. At least three of these credit hours must be at the 5500+ level and taken from courses offered by the Department of Chemistry. The systematic courses CHEM 5520R, CHEM 5530 and CHEM 5540R may be used to satisfy the "400-level or above" requirement, but not the "5500+ level" requirement. CHEM 5590, CHEM 5599 and CHEM 5699 may not be used to satisfy these requirements. Students who receive a grade of C+ (2.3) or less in two or more courses used to satisfy these requirements will be disqualified from using Chemistry as their co-discipline.
Any of the above chemistry courses will be credited toward the Ph.D. coursework requirement if taken as part of any previous graduate program at UMKC and if a grade of B- (2.7) or better is received. Transfer credit from another institution cannot be applied to Chemistry's co-discipline requirement.

Special Requirements
Chemistry as a Primary Discipline
Placement Examinations
Incoming students take placement examinations in analytical, inorganic, organic and physical chemistry. Placement examinations are typically administered the week preceding the first week of classes of the fall and spring semesters. Students scoring below the 50th percentile in the organic and/or physical chemistry
exams are required to enroll in CHEM 5520R and/or CHEM 5530, respectively. Enrollment in other graduate organic or physical chemistry courses is not permitted until CHEM 5520R and/or CHEM 5530, respectively, is(are) successfully completed. Two grades of C+ (2.3) or lower, or one grade of less than C- (1.7) in CHEM 5520R / CHEM 5530 will result in termination from the degree program. These courses may not be counted toward the coursework requirements above. Students must complete all additional coursework required as a result of the placement exam scores by the end of their first three regular semesters.

Research Adviser
Full-time students are to select a research adviser from the doctoral faculty of the Department of Chemistry and a supervisory committee by the end of their first regular (e.g. fall or spring) semester on campus.

Seminar
Students are required to attend and participate in all regularly scheduled and special Chemistry Department seminars and colloquia. Students are required to present a one-hour chemistry seminar (CHEM 5611) during their second year following full admission to the Ph.D. program, based on their dissertation research project. This seminar will include a thorough review of the literature pertinent to their project and a description of the objectives, the proposed methodology and the significance of this research. An abstract is to be posted and distributed one week prior to the presentation date.

Time Constraints and Financial Support
Students must complete all requirements for their degree within seven years from the date of full admission to the Ph.D. program. Under compelling circumstances and on the written recommendation of a majority of the supervisory committee, a single extension for up to one year may be requested for approval by the dean of the School of Graduate Studies. Full-time (as defined in the current UMKC catalog) Ph.D. students may receive financial support (in the form of fellowships or teaching assistantships) from the Department of Chemistry for a maximum of five years. Students from countries not having English as their first language, and who are to be supported as graduate teaching assistants, are to take the SPEAK test before the end of the first week of their first semester on campus. They are to enroll in English 100E their first semester on campus if necessary.

Dissertation
Students must complete a minimum of 24 credit hours of dissertation research (CHEM 5699). All supervisory committee members are to receive a final draft of the dissertation for approval of form and content at least two weeks before submission to the dean of the School of Graduate Studies for certification. Candidates should submit preliminary drafts well in advance of this deadline. After the dissertation is certified for acceptance, the student must present an oral defense of his/her research in the form of a dissertation seminar. The supervisory committee will make a final determination of the acceptability of the dissertation immediately following this presentation. Only minor changes may be made to the dissertation at this point.

Expectations for Interdisciplinary Work
Chemistry as a Primary Discipline
Students develop and pursue a plan of study that includes coursework from the primary discipline and co-discipline(s). The interdisciplinary nature of the student's program is emphasized in the comprehensive examination, which includes material from all disciplines in the plan of study.

Chemistry as a Co-discipline
The Department of Chemistry will cooperate with the student's primary discipline in assessing the interdisciplinary nature of the student's progress.
Comprehensive Examination Guidelines

Chemistry as Primary Discipline
A written comprehensive examination will be prepared and administered by the examination committee (consisting of the student's supervisory committee and others selected by the dean of the School of Graduate Studies) before completion of the student's third year following full admission to the Ph.D. program. This examination will be based on the student's coursework and on general knowledge in all areas of his/her specialization. All efforts will be made to emphasize the multidisciplinary nature of the student's program in this examination. If the student fails the written portion of the comprehensive examination, he/she may petition the examination committee to allow for a single opportunity to retake it. This second examination must be completed no earlier than 12 weeks and no later than six months from the date of completion of the first examination.

After successful completion of the written portion of the comprehensive examination, an independent research proposal will be prepared describing a research project not related to the student's current research. The topic is to be approved by the examination committee. An abstract is to be posted and distributed, and a written copy of this proposal (in standard NSF or NIH format) given to all members of the examination committee at least one week prior to presentation in a proposal seminar. This seminar must be presented to all members of the examination committee within seven weeks of the completion date of the written portion of the comprehensive examination. The research proposal and proposal seminar are part of the comprehensive examination.

Chemistry as a Co-discipline
The comprehensive examination will be determined by the student's primary discipline in cooperation with the co-discipline(s).
Computer Science

**Discipline Coordinator** Vijay Kumar, (816) 235-2366, kumarv@umkc.edu
Click here to see Computer Science faculty who are members of the doctoral faculty.

Computer Science is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**
A student who meets the minimum discipline requirements stated below will be considered for regular full admission to the Ph.D. program. A student who meets the requirements partially but shows high potential for advanced-level work may be considered for provisional admission. Admission also depends on factors such as number of seats available, resources available in the area of student's interest, availability of adviser, the quality of previous work, etc. A student not qualifying for admission to the Ph.D. program may be automatically considered for admission to the M.S. computer science program.

**Academic Preparation**
The applicant must have a bachelor's degree and/or a master's degree in computer science, computer engineering, electronics, communications engineering or any other field requiring substantial training in at least one of the above fields and in mathematics with a GPA of 3.5 or better on a 4.0 scale, cumulative as well as in the major field; and a GPA of 3.5 or better on a 4.0 scale, in all post-baccalaureate or post-master's degree work.

**Aptitude for Advanced Work**
The student must demonstrate an aptitude for advanced-level work through national/international standardized examinations such as the GRE. The expected performance level is the 70th percentile in the quantitative portion of the GRE examination. The student must also show an excellent performance in all of his or her coursework.

**Proficiency in English**
The student must demonstrate his or her proficiency in oral and written communication in English through national/international standardized English examinations such as TOEFL, verbal portion of the GRE, etc. The expected proficiency level is the 50th percentile in the verbal portion of the GRE or a TOEFL score of 263 or above (230 CBT). UMKC students may also satisfy this requirement by obtaining an English Proficiency Certification from the English Department. [**Note:** As per University policy, all international students go through the English proficiency test upon arrival to the campus, regardless of their scores in TOEFL or verbal portion of GRE or any other test. A student's adviser may also require the student to take the above test, irrespective of the student's native language. As a result of this test, the student may be required to improve his or her oral and written communication in English before enrollment in the courses of the chosen disciplines.]

**Recommendations**
The student must provide at least three recommendation letters, identifying clearly his or her academic achievements and exceptional quality, from the professors from his or her previous institution(s). If the applicant has been out of school for several years, recommendation letters from his or her supervisors
(technical) will be acceptable. However, even in this situation, a recommendation letter from his or her last academic institution is highly recommended. A recommendation from a faculty member in the Computer Science Electrical Engineering (CSEE) Department at UMKC must be provided if the student has taken courses from or worked with the CSEE faculty.

Statement of Goals and Objectives
The applicant must provide a 250- to 500-word essay on his or her goals and objectives of pursuing the Ph.D. in the chosen fields. This is an important document for reviewing the application. Applicants, therefore, are advised to provide a clear account of their academic achievements and plans for higher study.

Admission at an Advanced Level
An applicant who has already completed significant graduate coursework (15 or more semester hours of post-master's work or 30 or more hours of post-bachelor's work) toward a Ph.D. at another institution must provide reasons for changing institutions. The applicant must also provide a letter of endorsement from a computer science doctoral faculty member indicating willingness to be the student's research adviser.

Alternate Admission Criteria
The applicant may have received a bachelor's degree or a master's degree in computer science, computer engineering, electrical engineering or electronics, or any other related field with substantial training in mathematics. An applicant not meeting the minimum admission requirements, or not having sufficient academic preparation (stated below under prerequisite knowledge) for advanced work in the chosen primary discipline(s), may be considered for provisional admission by the CSEE Department Ph.D. committee if the committee sees high potential and preparation for advanced work from the rest of the applicant's credentials. Evidence of high potential might be pertinent work experience, published papers or extremely high achievement in related areas. In any case, the required GPA (or GPAs) must be at least 3.0 on a 4.0 scale, and the coursework deficiencies for doctoral study in computer science must not be more than 18 semester hours. Applicants with an established research or publication record in a quantitative science are encouraged to apply.

Qualifying Requirements for Full Admission

Prerequisite Knowledge
It is expected that a Ph.D. applicant selecting Computer Science as the primary discipline have the level of preparation represented by the following courses. An applicant with only a B.S. degree in computer science must have at least a GPA of 3.25/4.0 and an applicant with at least a year of graduate work must have at least a GPA of 3.5/4.0 before attempting advanced study.
- Mathematics: MATH 300.

Length of Time to Complete Qualifying Requirements:
When a student is admitted provisionally, the CSEE Ph.D. Committee will specify, and the UMKC Interdisciplinary Executive Committee will confirm, the conditions and length of time available to satisfy them to achieve full admission status.

Suggested Compatible Co-disciplines
Telecommunications and computer networking, electrical and computer engineering, mathematics, physics, chemistry (computational focus), engineering (civil and mechanical focus), cell biology and biophysics, molecular biology and biochemistry, oral biology, pharmaceutical
sciences, pharmacology, geosciences, and economics. A co-discipline outside of this list may be considered in exceptional cases.

Core Program Requirements
The amount of work required for the Ph.D. depends on the student's level of preparation. For example, a student entering the Ph.D. program after earning a bachelor's degree may expect to do significantly more work compared to the student who enters after earning a master's degree.

Computer Science as a Co-Discipline
A Ph.D. student selecting Computer Science as co-discipline is expected to have the level of preparation represented by the following courses before attempting advanced study:

- COMP-SCI 352, COMP-SCI 394R, COMP-SCI 449, COMP-SCI 451R, COMP-SCI 470,
- Mathematics: MATH 210 - Calculus I, MATH 220 - Calculus II, MATH 300 Linear Algebra.

A Ph.D. student must clear the qualifying test and comprehensive test before defending his or her dissertation. The discipline's course requirements and qualifying test procedure is described below.

Discipline Course Requirements and Qualifying Test
The total Interdisciplinary Ph.D course credit (didactic) requirement is 30 hours which is divided into (a) primary discipline (12 credits), (b) co-discipline (9 credits), and (c) the remaining 9 credits can be completed either by doing graduate level courses at UMKC in any participating discipline or credits can be transferred from students’ previous institutions. This credit transfer must be approved by the CSEE Department Ph.D. committee/

Ph.D. Qualifying Test for Computer Science Discipline
The qualifying test is conducted to confirm that the student has a sound understanding of the fundamentals of computer science and has developed good problem-solving skills and research potential. This document includes the syllabus and describes the procedure for taking the qualifying test in the Computer Science discipline.

Eligibility
The student must be fully admitted to the Ph. D program at UMKC. Students admitted provisionally will have to satisfy all requirements stipulated in the letter of admission before being fully admitted.

Duration for clearing Qualifying Test
A student, irrespective of being full-time or part-time, must take the qualifying test by the third semester from the date he or she is fully admitted. For example, if a student is fully admitted in fall 2009, then he or she must take the qualifying test in Fall 2010. Failure to do so will disqualify the student from continuing in the Ph.D. program. Upon consultation with his/her interim adviser, a student may opt to clear the qualifying test earlier than the third semester. If a student fails the qualifying test in the first attempt then he or she MUST retake it in the subsequent semester. Failure to clear the test in the second attempt disqualifies the student from remaining in the Ph.D. program.

Qualifying Test Dates
Qualifying tests are administered twice a year, on the second Friday of April and November.

Qualifying Test Procedure
1. Registration: Eligible Ph.D. students must register to take the test. The registration deadline is March 31 for the April test and October 31 for the November test. Eligible students should send an e-mail with the following information to the Student Services Coordinator (Coretta Carter) and the Discipline Coordinator.
a. Name
b. Student ID
c. E-mail
d. Primary discipline and Co-discipline
e. Interim advisor’s name
f. Preferred semester for taking the test.

2. Registration Notification: Students will be notified by e-mail.

3. Taking the Test: Students take the test on the prescribed date.

Test Duration: Four hours.

Test Result
The Discipline Coordinator will make the result of the test available within two weeks from the date of the test. The minimum passing grade is 70%. The result could be one of the following.

a. Pass: The student proceeds to the next level of the Ph.D. curriculum. He or She prepares the plan of study and finalizes the composition of his or her supervisory committee. The plan is submitted to the graduate office for approval.

b. Fail: If a student fails then he/she must retake and clear the test in the subsequent semester. Failure to clear the test in the second attempt will disqualify the student from continuing with the Ph.D. program.

c. Case for discussion: If a student scores between 67% and 70%, then the case will be reviewed. This discussion is open to any doctoral faculty member of the discipline. If the decision of the committee is a Fail on the second attempt then the student cannot continue in the Ph.D. program.

Test Format
The test will have two parts: Fundamental part and Discipline part. A student will answer a set of questions from each part as indicated on the test.

Contents of the Fundamental part
The qualifying test will contain questions from the topics listed below. The questions in the Fundamental part will be based on the material typically taught in the specified undergraduate courses. The students must have a sound understanding of these topics and are expected to demonstrate this in their answers.

Fundamental part: A student must answer at least ONE question from each of the following areas.

a. Discrete Structures (Based on COMP-SCI 191 and COMP-SCI 291)
b. Data Structures (Based on COMP-SCI 303) and Algorithms (Based on COMP-SCI 404)
c. Basic Probability and Modeling (Based on COMP-SCI 394R)
d. Operating Systems (Based on COMP-SCI 431)

Contents of the Discipline part
The questions in the Discipline part will be based on undergraduate and graduate material. The syllabi of each area list a set of topics from which questions will be selected.

Discipline part: A student must select any TWO of the following areas from which to answer the required set of questions specified on the test.

a. Bioinformatics (Based on COMP-SCI 5566)
b. Cryptography (Based on COMP-SCI 5596A),
c. Databases (Based on COMP-SCI 470 and COMP-SCI 5570).
d. Design and Analysis of Algorithms (Based on COMP-SCI 5592)
e. Performance Modeling (Based on COMP-SCI 494R and COMP-SCI 5594)
f. Software Engineering (Based on COMP-SCI 451 and COMP-SCI 5551)
Computer Science as Co-discipline
A student will answer any 4 questions from the entire test. For example, a student may select all four questions from any one part or from both parts combined.

Ph.D. Qualifying Test Syllabus
The syllabus lists the main topics in each area. Students are strongly advised to consult the listed textbooks to prepare for the test.

1. Discrete Structures
Mathematical induction, Relations, Counting methods (Permutation, Combination, Pigeon-hole principle), Recurrent relations, Graph theory.
Reference book
- Discrete Mathematics by Richard Johnsonbaugh.

2. Data Structures and Algorithms
Basic knowledge of algorithm complexity (Big-Oh, Big-Omega, Big Theta, best, worst, and average case analysis, etc.), Binary trees, Binary search trees, AVL trees, Heaps, B-trees, B+ trees, Graphs, Hashing (Static, Dynamic, and Extendible), Huffman codes, Divide-and-conquer, Searching, Sorting, In-order, Pre-order, and Post-order traversals, Breadth first, Depth first graph traversal), Spanning trees and Shortest path.
Reference books
- Data Structures and Algorithm Analysis in C++ by Mark Allen Weiss, Addison Wesley.
- A Practical Introduction to Data Structures and Algorithm Analysis by Clifford A. Shaffer, Prentice Hall.

3. Basic Probability and Modeling
Sample spaces and events; Conditional probabilities; Discrete random variables (Binomial, Geometric, Poisson), Continuous random variables (Uniform, Exponential, Normal, Gamma), Moment generating functions, Moments and expectation, and Conditional expectation.
Reference books
- Introduction to Probability Models by Ross, Academic Press.

4. Operating Systems
Process Management (synchronization, concurrency, deadlock), Memory management, Process and Job scheduling, Performance models (expected behavior), and File Systems.
Reference books
- Operating System Concepts by Silberschatz and Galvin, John Wiley.
- Operating Systems: Design and Implementations by Tannenbaum, Prentice Hall.

5. Bioinformatics
Algorithms for Sequence and Structural analysis of Biopolymers (Pairwise Sequence analysis, Multiple Sequence Analysis, Structural alignment, Structure prediction, Phylogenetics), Bioinformatic Databases & Ontologies, Bioinformatic Approaches to System-wide studies.
Reference books

6. Cryptography
Conventional and Public-key crypto-algorithms, including DES, RSA, Discrete-Logarithm based algorithms, Diffie-Hellman public-key distribution algorithm, mental poker, secret sharing, secure email, SSL, X.509, and Wireless security.
Reference books

7. Database Systems
Database Modeling, E-R Model, Relational Data Model, Data storage and Indexing schemes, Relational Database Design (Functional Dependencies and Modification anomalies), Relational Algebra and Relational Calculus, Query Processing and Optimization, Transaction Management (Transaction structure, transaction processing, serial and concurrent execution, and concurrency control mechanisms), Database Recovery.

**Reference books**

**8. Algorithms**
Divide and Conquer method, Dynamic programming, Greedy algorithms, Depth-first and Breadth-first search, Shortest path algorithms, Minimum spanning trees, NP-completeness.

**Reference books**

**9. Performance Modeling**
Construction of probabilistic models for performance prediction of computer systems or components, The Poisson Process, Properties of the exponential distribution, State classification (Periodic, Irreducible, Homogeneous, and Ergodic Markov chains), and M/M/1 type models.

**Reference books**
- Queuing Systems I, (Chapters 1-4), by L. Kleinrock, John Wiley
- Probability Models, (Chapters 4, 5, and 8.1-8.3) by S. Ross, Academic Press
- Probability, Statistics & Queuing Theory, (Chapters 4-5.2) by A. Allen, Academic Press
- Probability & Statistics with Reliability, Queuing (Chapters 6-8.4) by K. Trivedi, Wiley.

**10. Software Engineering**
Software process models, Software measurement, Metrics for software quality, Software project estimation techniques and models, Requirement analysis and analysis modeling, Software architecture, Software design methods, and Software design patterns, Real-time Software design, Software testing methods, Object-Oriented concepts and principles (UML analysis/design/testing), Formal methods for software engineering, Software reuse, CASE tools.

**Reference books**
- Object-Oriented methods: Principles & Practice by Ian Graham, Addison-Wesley

**Requirements for Comprehensive Exams**
The comprehensive exam is administered by the student's supervisory committee. A student can either take a written test or opt for an oral presentation covering both primary and co-discipline areas. Discussion with and agreement from the student's supervisory committee is required before choosing the desired option.

The candidates should contact the CSEE Division office and the chair of their doctoral committee for additional information.

**Financial Aid**
All admitted international and non-resident Ph.D. students automatically receive financial aid in the form of significantly reduced fees. In addition, they can apply to various forms of financial aid (such as
graduate research assistantships, graduate teaching assistantships, graduate fellowships) through the CSEE Department and the School of Graduate Studies. Note that a GTA can only be awarded to a student after the student has successfully demonstrated his or her teaching potential to a committee and has successfully passed the English language test. Contact the discipline coordinator for more information.
Curriculum and Instruction

Discipline Coordinator Omiunna Ukpokodu, (816) 235-2469, ukpokodun@umkc.edu

Click here to see Curriculum and Instruction faculty who are members of the doctoral faculty. Curriculum and Instruction is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements

Applicants who designate curriculum and instruction as their primary discipline will be expected to have a Master's degree; and a GPA of at least 3.5 on a 4.0 scale, covering all post-baccalaureate work completed to date.

If the discipline is selected as the primary discipline and the dissertation research will have a primary orientation in curriculum and instruction, the student must obtain the agreement of a member of the doctoral faculty in curriculum and instruction to serve as research adviser before the student can be admitted.

The applicant must provide the following supplementary documentation:

1. Written recommendations from appropriate professors and practitioners in the field (selected by student).
2. Brief narrative stating research interest
3. GRE score requirement of a combined minimum score of 295 on the verbal and quantitative section and 4.00 on the analytic writing section
4. Sample research or scholarly writing

Suggested Compatible Co-disciplines

Educational Leadership, Policy and Foundations, music education, chemistry, history, mathematics, physics, and public affairs and administration.

Core Program Requirements

All students with curriculum and instruction as primary discipline are required to complete 9 hours of core courses (EDUC-C&I 5618 or EDUC-C&I 5620, EDUC-C&I 5626 and 3 hours of technology) and a minimum of 15 credit hours of electives. All students with curriculum and instruction as a co-discipline are required to complete 9 hours of core courses (EDUC-C&I 5618 or EDUC-C&I 5620, EDUC-C&I 5626 and 3 hours of technology) and a minimum of 6 credit hours of electives. All students with curriculum and instruction as primary discipline are required to complete a minimum of 12 hours of research that includes EDUC-R&P 5608 (Introduction to Graduate Research) and at least one course each in qualitative research methods and statistics and a minimum of 12 hours of dissertation.

Ph.D. study in curriculum and instruction prepares students with diverse academic and professional backgrounds to meet equally diverse career and scholarly goals. Moreover, rather than being a homogeneous field with a relatively uniform approach to Ph.D. study, curriculum and instruction encompasses several separate specialized areas, each with its own requirements and expectations regarding doctoral work. Hence, students accepted for the Interdisciplinary Ph.D. program with curriculum and instruction as their co-discipline may have backgrounds in one of the educational fields represented in the School of Education, in one of the disciplines represented in the College of Arts and Sciences, or in a professional field such as criminology, computer science or law. Students accepted with curriculum and instruction as their coordinating-unit discipline would typically have prior academic
training and experience in curriculum and instruction. Advisers would tend to be specialists in reading education, physical education, special education, educational psychology, mathematics education, science education or curriculum and instruction. The doctoral student in curriculum and instruction may be preparing for teaching and research in higher education, for a curricular or supervisory position in a public school district or for work in a government agency, private foundation or an educational training role in business and industry. Consequently, a single set of minimum standards cannot possibly fit all Ph.D. programs for which curriculum and instruction is the primary discipline or co-discipline. Instead, sensitivity to individual student needs and goals, as well as regard for the different approaches to doctoral study represented in the several fields within curriculum and instruction, require flexibility and diversity in program planning.

Within the context described, a minimum of 24 hours in curriculum and instruction is required of students with curriculum and instruction as their coordinating-unit discipline and a minimum of 15 hours in curriculum and instruction is expected of students selecting curriculum and instruction as their co-discipline. In no case will a program be drawn up or approved that contains only coursework previously completed. Additional requirements may be set by the student's doctoral supervisory committee on the basis of the individual's program goals, previous academic preparation and relevant prior experiences.

**Requirements for Comprehensive Examinations**

The student may obtain discipline-specific information on comprehensive examination guidelines from his or her research adviser.
Economics

Discipline Coordinators Peter Eaton, (816) 235-2832, eatonp@umkc.edu

Click here to see Economics faculty who are members of the doctoral faculty.

Economics is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
In addition to the general criteria for admission, the criteria for admission to the Interdisciplinary Ph.D. program in economics are:

1. A score of at least 154 in verbal reasoning, a score of at least 154 in quantitative reasoning and at least a 4.0 on the analytical portions of the general Graduate Record Examination.
2. A grade-point average of at least 3.0 (on a 4.0 scale) covering all college work taken prior to the bachelor's degree, or a grade-point average of at least 3.0 (on a 4.0 scale) covering all post-baccalaureate work completed to date.
3. Recommendations for provisional or full admission by the doctoral faculty review group in at least two participating disciplines.
4. Applicants for whom English is not the native language and have studied less than two years (full time) in a U.S. academic program or a comparable program in an English-speaking country are required to obtain a TOEFL score of at least 550 on the paper-based test or 213 on the computer-based test. In addition, to qualify for full admission status, international students must achieve a score of at least 4.0 on the Test of Written English (TWE) portion of the TOEFL examination. Students admitted provisionally because of the TWE requirement may take a TWE equivalency test through UMKC's Applied Language Institute once they arrive on campus.
5. Applicants must have at least 18 undergraduate semester credit hours in economics, including intermediate microeconomics and macroeconomics and a course in elementary statistics. In addition, it is strongly recommended that applicants have some of the following courses: econometrics, mathematical economics, history of economic thought, heterodox economics, economic history, calculus and linear algebra. Students with fewer than 18 credit hours will be admitted only on a provisional status.
6. Applicants matriculated into the M.A. economics program at UMKC may apply for admission to the Interdisciplinary Ph.D. program in economics as soon as they have completed 15 credit hours and have earned a grade-point average of 3.25 or better.
7. Applicants who wish to transfer to the UMKC Interdisciplinary Ph.D. program in economics from other institutions must have obtained a grade-point average of at least 3.0 covering all their graduate work. Transfer students must apply for transfer credits toward the Interdisciplinary Ph.D. as soon as possible after completion of a minimum of 12 credits at UMKC with a grade-point average of 3.0 or better. Up to 30 transfer credit hours may be granted. No transfer credit will be granted for any courses not relevant to the Interdisciplinary Ph.D. in Economics or for any course with a GPA of less than 3.0.

The deadline for receipt of completed applications and supporting documentation is Feb. 1 for the fall semester and Sept. 1 for the spring semester.
Alternate Admission Criteria
Applicants who do not fit the above criteria may petition the economics doctoral committee with evidence of scholarly publication, research and recommendations, but the decision rests with the committee.

Qualifying Requirements for Full Admission
At the time admission is offered, provisional students will be notified of any course deficiencies or qualifying requirements to be met for full admission. The faculty will make a decision with regard to full admission based upon the student's performance in meeting the qualifying requirements.

Suggested Compatible Co-disciplines
Curriculum and instruction, history, public affairs and administration, educational leadership, policy and foundations, and the Social Science Consortium.

Core Program Requirements
For students with this discipline as their coordinating unit
The Interdisciplinary Ph.D. in economics consists of a minimum of 18 required coursework credit hours in economics—including ECON 5506, ECON 5551, ECON 5601, ECON 5602, ECON 5625 and ECON 5688 or SOC-SCI 5688. If the student has not taken the prerequisites to ECON 5601, ECON 5602 and ECON 5625, he/she will be required to take ECON 5501, ECON 5502, ECON 5521, and ECON 5525 -- and additional 12 coursework credit hours (or, a total of 30 hours). All students are strongly urged to take two fields in economics, each consisting of two three-credit hour courses for a total of 12 additional coursework credit hours. These courses will be taken in economics and at least one additional field such as sociology, history, public administration, education, mathematics, political science, geosciences, computer science or others, provided that such fields participate in the doctoral program. Required Courses - 30 hours

- ECON 5501 Advanced Macro-Economic Analysis (prerequisite, ECON 301 Macroeconomic Analysis)
- ECON 5502 Advanced Macro-Economic Analysis (prerequisite, ECON 302)
- ECON 5506 Advanced History of Economic Thought (prerequisite, graduate standing)
- ECON 5521 Mathematical Economics (Calculus I strongly recommended)
- ECON 5525 Econometric Methods (prerequisite, ECON 425 Intermediate Economic Statistics)
- ECON 5551 Advanced History of Economic Thought (prerequisite, ECON 451 Institutional Economic theory and Interdisciplinary Ph.D. standing)
- ECON 5601 Advanced Institutional Theory (prerequisite, ECON 5501 Advanced Macro-Economic Analysis)
- ECON 5602 Colloquium in Advanced Microeconomics (prerequisite, ECON 5502 Advanced Micro-Economic Analysis)
- ECON 5625 Colloquium in Econometrics (prerequisite, ECON 5525 Econometric Methods)
- ECON 5688 Colloquium in Political Economy (prerequisite, ECON 5506 Advanced History of Economic Thought or ECON 5551 Advanced Institutional Theory)
- Coursework in an outside field or fields, depending upon the requirements of co-discipline regulations;
- Dissertation and oral examination, 12 hours.

For students with this discipline as a co-discipline
Those students taking economics as a co-discipline will take a minimum of 12 hours in economics, at the graduate level, including:

- ECON 5501 Advanced Macro-Economic Analysis (prerequisite, ECON 301 or equivalent)
• ECON 5502 Advanced Macro-Economic Analysis (prerequisite, ECON 302 or equivalent)

**Comprehensive Examination Guidelines**
Coordinating-discipline students are required to pass a qualifying examination in economics theory--micro, macro and political economy, and in quantitative methods. Students taking field concentrations must pass a comprehensive examination in those fields, or meet the requirement by an alternative means that is accepted by the department.
Co-discipline students must receive grades of "B" or better in ECON 5501 and ECON 5502. In addition, the oral portion of the comprehensive examination will require students to integrate knowledge between topics in economics and the student's coordinating unit.
Educational Leadership, Policy and Foundations

**Discipline Contact** Megan Kean, (816) 235-2716, keanme@umkc.edu

Click here to see Educational Leadership, Policy and Foundations faculty who are members of the doctoral faculty.

Educational Leadership, Policy and Foundations is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**

Applicants who designate educational leadership, policy and foundations as their primary discipline will be expected to have a grade-point average of at least 2.75 on a 4.0 scale, covering all college work taken prior to the bachelor's degree, or a GPA of at least 3.5 on a 4.0 scale, covering all post-baccalaureate work completed to date.

Applications are normally only reviewed once a year, for admission beginning the next summer or fall term. To be considered, applications must be submitted to the Admissions Office by February 15.

The applicant must provide the following supplementary documentation:

1. Written recommendations from appropriate professors and practitioners in the field (selected by the applicant).
2. An autobiographical sketch. (This should be a brief resume of academic and professional goals and the applicant's personal, academic and career history as it relates to those goals. It should also include reasons for choosing urban leadership and policy studies in education as a field of study.)
3. Evidence of graduate-level writing ability provided by writing samples, prior scholarly writing or the successful completion of an essay examination.

Applicants are required to provide official GRE test scores. GRE scores will be used by doctoral faculty in the discipline as one of several criteria used to evaluate the strength of the application. No other assessment results will be substituted for the GRE. When evaluating applications, faculty members will take into account evidence in the applications of such factors as demonstrated leadership skills, commitment to education, communication and academic skills, a clear and important research agenda, cultural background, etc. There is no minimum aggregate GRE score required for applications to be considered for urban leadership and policy studies in education. Applicants must meet the GRE requirements for their other discipline(s).

In addition, an applicant, the applicant's adviser or any member of the division may request that the applicant meet with and be interviewed by the division faculty.

**Alternate Admission Criteria**

International applicants will be considered for admission to the Ph.D. program on the basis of background, experience and educational attainments in their home countries. Exceptions to the general criteria for admission to Interdisciplinary Ph.D. study may be made for students whose potential for success in the doctoral program may not be reflected in the general criteria.

**Qualifying Requirements for Full Admission**

In some cases, the division may ask that 12 hours of work at UMKC, including an education foundations course, be taken prior to full admission.
Students admitted under alternate criteria will be notified upon acceptance of any coursework deficiencies they must satisfy or other preparation they must undertake prior to full admission.

**Suggested Compatible Co-disciplines**
Curriculum and instruction, public affairs and administration, history, economics, political science, and the social science consortium.

**Core Program Requirements**
Students with educational leadership, policy and foundations as a co-discipline will be required to take a minimum of 15 credit hours of core courses. The core curricula will vary, depending on whether students' research is primarily in educational leadership or the social-philosophical foundations of education and on the types of educational setting upon which they wish to focus. Specific courses will be selected with the advice and consent of the student's faculty adviser and supervisory committee. The supervisory committee may elect to accept coursework in an educational-specialist program or other post-master's degree program as counting toward the 15-credit-hour requirement.

Students seeking administrative certification for public school positions should check with their advisers to be sure they include all courses currently required in the states in which they wish to become certified. The amount of required coursework, beyond the minimum 15-credit-hour core requirement, taken by students with urban leadership and policy studies in education as their primary discipline, will depend upon their previous preparation in the discipline, their previous research competencies, their personal career goals and their research interests.

All students with educational leadership, policy and foundations as either the primary discipline or the co-discipline are required to take and complete EDUC-UL 5685, the seminar on problems and issues in education and urban leadership.

**Other Discipline-Specific Special Requirements**
The student, at a minimum, will be required to take and complete 12 hours of coursework that provides extensive preparation in research methodologies relevant to her or his professional goals and intended dissertation project. The student will select specific courses with the advice and consent of her or his faculty adviser and supervisory committee. Typical courses which would satisfy this requirement include (but are not limited to): EDUC-R&P 5505, EDUC-R&P 5508, EDUC-R&P 5605, EDUC-R&P 5608, EDUC-R&P 5610, HISTORY 5591, HISTORY 5687, SOCIOL 5510, SOCIOL 5511, SOCIOL 5512, EDUC-UL 5601 and EDUC-UL 5603.

**Requirements for Comprehensive Examinations**
Students with educational leadership, policy and foundations as the primary discipline must pass a comprehensive examination including both the primary discipline and the co-discipline areas.
Electrical and Computer Engineering
Discipline Coordinator Ghulam M. Chaudhry, (816) 235-5214, chaudhryg@umkc.edu

Click here to see Electrical and Computer Engineering faculty who are members of the doctoral faculty.

Electrical and Computer Engineering is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
A student who meets the minimum discipline requirements stated below will be considered for regular admission to the Ph.D. program. A student who does not meet some of the requirements but shows high potential for advanced-level work may be considered for provisional admission. Admission also depends on factors such as number of seats available, resources available in the area of student's interest, the quality of previous work, etc. A student not qualifying for admission to the Ph.D. program may be considered for admission to the M.S. computer science or electrical engineering program. Requirements for admission are similar whether the applicant is requesting electrical and computer engineering as the primary discipline or co-discipline.

Academic Preparation
The applicant must have a bachelor's degree and/or a master's degree in electrical and/or computer engineering, electronics, communications engineering or any other field requiring substantial training in at least one of the above fields and in mathematics with a GPA of 3.5 or better on a 4.0 scale, cumulative as well as in the major field; and a GPA of 3.5 or better on a 4.0 scale in all post-baccalaureate or post-master's degree work.

Aptitude for Advanced Work
The student must demonstrate an aptitude for advanced-level work through national/international standardized examinations such as the GRE. The expected performance level is the 85th percentile in the quantitative portion of the GRE examination.

Proficiency in English
The student must demonstrate his or her proficiency in oral and written communication in English through national/international standardized English examinations such as TOEFL, verbal portion of the GRE, etc. The expected proficiency level is the 50th percentile in the verbal portion of the GRE or a TOEFL score of 213 or above. UMKC students may also satisfy this requirement by obtaining an English Proficiency Certification from the English Department. (Note: As per University policy, all international students are tested for proficiency in English upon arrival on campus, irrespective of their scores in TOEFL or verbal portion of GRE, or any other test. A student's adviser may also require the student to take the above test, irrespective of the student's native language. As a result of this test, the student may be required to improve his or her oral and written communication in English before enrollment in the courses of the chosen disciplines.)
Recommendations
The student must provide at least three recommendation letters from the professors from his or her previous institution(s). If the applicant has been out of school for several years, recommendation letters from his or her supervisors (technical) will be acceptable. However, even in this situation, a recommendation letter from his or her last academic institution is highly recommended. A recommendation from a faculty member in the Computer Science Electrical Engineering (CSEE) Department at UMKC must be provided if the student has taken courses from or worked with the CSEE faculty.

Statement of Goals and Objectives
The applicant must provide a 250- to 500-word essay on his or her goals and objectives of pursuing the Ph.D. in the chosen fields.

Admission at an Advanced Level
An applicant who has already completed significant graduate coursework (15 or more semester hours of the post-master's work or 30 or more hours of the post-bachelor's work) toward a Ph.D. at another institution must provide reasons for changing institutions. The applicant must also provide a letter of endorsement from a doctoral faculty member in electrical and computer engineering indicating willingness to be the student's research adviser.

Alternate Admission Criteria
The applicant may have received a bachelor's degree or a master's degree in computer science, computer engineering, electrical engineering or electronics, or any other related field with substantial training in mathematics. An applicant not meeting the minimum admission requirements, or not having sufficient academic preparation (stated below under prerequisite knowledge) for advanced work in the chosen discipline(s), may be considered for provisional admission by the CSEE Department’s Ph.D. committee if the committee sees high potential for advanced work from the rest of the applicant's credentials. Evidence of high potential might be pertinent work experience, published papers or extremely high achievement in related areas. In any case, the required GPA (or GPAs) must be at least 3.0 and the coursework deficiencies in software architecture must not be more than 18 semester hours. Applicants with an established research or publication record in a quantitative science are encouraged to apply to this discipline.

Qualifying Requirements for Full Admission
Prerequisite Knowledge
A Ph.D. student selecting electrical and computer engineering as the primary discipline is expected to have the level of preparation represented by a four-year undergraduate degree in electrical/computer engineering.

A student not having an undergraduate degree in electrical/computer engineering may be admitted provisionally if the admission committee determines that the student has a strong aptitude for research and is willing to take prerequisite courses as determined by the admission committee based on the student's academic record.

Suggested Compatible Co-disciplines
Computer science, telecommunication and computer networking, mathematics, physics and engineering (civil and mechanical focus). A co-discipline outside of this list may be considered only in exceptional cases.
Core Program Requirements
The amount of work required for the Ph.D. depends on the student's level of preparation. For example, a student entering the Ph.D. program after earning a bachelor's degree may expect to do significantly more work compared to a student who enters after earning a master's degree.

Requirements for Qualifying and Comprehensive Examinations
The Qualifying Exam is a written test administered by the CSEE Department's Ph.D. committee. The test questions are from a set of fundamental courses in electrical and computer engineering. The Comprehensive Exam is administered by the doctoral committee of the candidate. A student can either take a written test or opt for an oral presentation covering both primary and co-discipline areas. Discussion with and agreement from the student’s doctoral committee is required before choosing the best option. Candidates should contact the CSEE Department's office and the chair of their doctoral committee for more information.

Electrical and Computer Engineering as a Co-Discipline
The student who chooses electrical and computer engineering as a co-discipline may obtain information on qualifying exam and comprehensive exam requirements from the discipline coordinator.

Financial Aid
Various forms of financial aids (such as graduate research assistantships, graduate teaching assistantships, graduate fellowships) are available through the CSEE Department and the School of Graduate Studies. Contact the discipline coordinator for more information.
Engineering
Discipline Coordinator Ganesh Thiagarajan, (816) 235-1288, ganesht@umkc.edu

Click here to see Engineering faculty who are members of the doctoral faculty.

Engineering is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
A student who satisfies the general requirements for admission and also meets the minimum discipline requirements stated below will be considered for regular admission to the Ph.D. program with engineering as a discipline. A student who does not meet some of the requirements but shows high potential for advanced-level work may be considered for provisional admission. Admission also depends on factors such as number of seats available, resources available in the area of the student's interest, the quality of previous work, etc. Requirements for admission are the same whether the applicant is requesting engineering as the primary discipline or the co-discipline.

1. The applicant must have a bachelor's degree or a master's degree in civil or mechanical engineering or related disciplines with a grade-point average of at least 3.0 on a 4.0 scale in the last 60 hours of undergraduate engineering coursework. In addition, a GPA of 3.5 or better in all post-baccalaureate coursework is required. Pre-program requirements may be specified in case the bachelor's degree is in a discipline different than that to which the candidate is applying.

2. The student must demonstrate an aptitude for advanced-level work by obtaining a cumulative GRE score of at least 302 (verbal + quantitative) and a minimum of 158 on the quantitative portion of the examination. GRE requirements may be waived for applicants with a baccalaureate from an ABET accredited program who have passed the fundamentals of Engineering (FE) exam.

3. TOEFL scores are required for international students without prior U.S. degrees. The minimum required score is 80. TOEFL requirements may be waived for applicants with a baccalaureate from an ABET accredited program.

4. The student must provide at least three recommendation letters from professors at previous institutions or mentors at work.

5. The applicant must provide a 500- to 750-word essay on his or her goals and objectives in pursuing the Ph.D. in the chosen fields.

6. Provisional admission may be granted if the minimum GPA and GRE requirements are not met, but other indicators promise the student's success in the program. To be fully admitted to the Interdisciplinary Ph.D. program, the provisionally admitted student must obtain a grade of B or better in the first nine hours of coursework and submit a satisfactory GRE score within their first year of the program.

Suggested Compatible Co-disciplines
Chemistry, computer science, electrical and computer engineering, geosciences, mathematics, molecular biology and biochemistry, oral biology, physics, and telecommunication and computer networking.
Core Program Requirements

Engineering as Primary Discipline
A minimum of 60 credit hours of approved graduate coursework (300-level or higher) beyond the baccalaureate, including dissertation research hours (CIV-ENGR 5699, E&C-ENGR 5699 or MEC-ENGR 5699), are required. Of these, at least two-thirds must be at the 5500/5600-level. The graduate coursework may include courses taken at UMKC or other institutions and approved for transfer by the student's supervisory committee. A minimum of 12 credit hours of dissertation research (CIV-ENGR 5699, E&C-ENGR 5699 or MEC-ENGR 5699) is required.

Example Minimum Requirements Beyond Master of Science Degree

<table>
<thead>
<tr>
<th>Hours</th>
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<tr>
<td>Primary discipline (Engineering)</td>
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<tr>
<td>Co-discipline (e.g. Mathematics or Physics)</td>
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<tr>
<td>Dissertation research</td>
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<tr>
<td>Total beyond M.S. degree (minimum of 30 hours)</td>
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Engineering as Co-discipline
A student electing engineering as co-discipline will be required to complete a minimum of 9 credit hours in engineering graduate courses, of which at least six hours must be at the 5500/5600-level.

Qualifying Examination Guidelines
A qualifying exam will be completed by the Ph.D. student as a core program requirement. The exam will be administered by the graduate committee in conjunction with the research adviser in the first year of study. The exam will consist of two parts: (1) a written exam based on core areas in civil/mechanical engineering OR an engineering problem related to the student's emphasis area AND, (2) an oral defense of the exam and other discipline fundamentals or the problem solution. The department will keep a record of whether the student has passed or failed the exam. The student may request one more attempt to retake the exam in the event of a failed grade. The student will be recommended for termination from the doctoral program after two failed attempts.

Comprehensive Examination Guidelines
To advance to degree candidacy, an Interdisciplinary Ph.D. student is required to pass a comprehensive examination administered by the student's research adviser and supervisory committee. This comprehensive exam will consist of two parts. Part One will be a written exam over the student's Ph.D. coursework or the submission of a grant proposal to the committee. Part Two will be an oral defense of the student's dissertation research proposal.
English

Discipline Coordinator Anthony Shiu, (816) 235-5205, shiua@umkc.edu

Click here to see English faculty who are members of the doctoral faculty.

English is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
For new students selecting English as a discipline, admission will normally be for the fall term. Application dossiers must be complete by Jan. 15.

Applicants who select English as their primary discipline will be expected to have the M.A. in English or equivalent coursework as determined by the English department doctoral committee. Applicants who select English as a co-discipline should have completed a master's degree or equivalent coursework. In most cases, students will be expected to have completed, with a grade of B or better, 12 hours of English courses at the 300- or 400-level (or appropriate equivalents) that are approved by the English department doctoral committee.

An applicant who plans to pursue a degree with English as a discipline is required to provide the English department doctoral committee with the names of three individuals who are academically or professionally qualified to assess the applicant's ability to pursue doctoral work. References submitted to the School of Graduate Studies for admission to doctoral studies may be judged by the English department doctoral committee as sufficient evaluation, but the department reserves the right to request further information.

Applicants also are required to submit samples of written work to the English department doctoral committee. The applicant's narrative statement, submitted with the application form, should provide a well-focused justification of the proposed course of study that is compatible with the department's resources. Applicants should consult with the Interdisciplinary Ph.D. coordinator in English for advice on the preparation of the narrative. Applicants may also seek advice on the narrative from doctoral committee members with special expertise in the applicant's chosen fields of study.

Applications will be evaluated by a committee of the doctoral faculty in the English department; the committee will recommend to the department chair and dean of the School of Graduate Studies whether the applicant should be admitted. These English-specific requirements apply to all applicants intending to have English as primary discipline or co-discipline.

Students who expect to write a dissertation that draws primarily on research in English must apply for English as their primary discipline.

In cases where an applicant has not yet met the foreign language requirement or GRE scores are still pending, provisional admission may be recommended.
Alternate Admission Criteria
The department's required GRE score is independent of, and takes precedence over, the School of Graduate Studies' minimum of 1500 points.

Qualifying Requirements for Full Admission
In addition to the below criteria, the committee considers the applicant's writing sample, letters of recommendation, personal statement, and the overall viability of the applicant's proposed dissertation project.

English as Primary Discipline
GRE scores
Either (1) a general verbal score in the 60th percentile or better; or (2) a score in the 60th percentile or better in the English subject examination.

Relevant Foreign Language Skills
Applicants must demonstrate facility in a foreign language relevant to study in English. The language requirement will ordinarily be met by two years of satisfactory college-level language study. Students may be required to demonstrate additional language skills to undertake or complete their dissertations.

English as a Co-discipline
GRE scores
A general verbal score in the 60th percentile or better.
Foreign Language Skills
Demonstrate foreign language competence in the same manner as students with English as the primary discipline.

Suggested Compatible Co-disciplines
Curriculum and instruction, religious studies, and history.

Core Program Requirements
All students who list English as a discipline, whether as primary discipline or co-discipline, are required to take ENGLISH 5500, Introduction to Graduate Study in English or its equivalent.
Students admitted with English as the primary discipline are subject to the following requirements:

- Only English courses numbered 400 or above will be accepted for the Ph.D. degree. Courses taken in other disciplines may be taken at the 300-level or above.
- No grade below B in any course will be accepted to apply toward the Ph.D. degree.
- In most cases, no more than one-third of coursework in English, exclusive of credit for dissertation work, that is classified as independent study will be accepted for the Ph.D. degree.
- Students will be expected to complete the majority of their coursework at UMKC.
- In certain cases, exceptions to these requirements may be allowed.

Other Discipline-Specific Special Requirements
For foreign language requirement, see "Qualifying Requirements for Full Admission" for this discipline.

Comprehensive Examination Guidelines
Before advancing to Ph.D. candidacy, students whose primary discipline is English will take three examinations: a written general examination, an oral interdisciplinary subject examination and a co-disciplinary examination. The examinations must be taken within a year of completing coursework. Prior to taking exams, students must have an assigned supervisory committee, an approved plan of study on file.
with the School of Graduate Studies and completed all required coursework. See Comprehensive Examination guidelines from the School of Graduate Studies for full details.

The general examination is a six hour exam, written in two three-hour sittings. This exam is administered by the English faculty on the supervisory committee, led by the chair of the committee. The subject examination is a two-hour oral interdisciplinary exam that is administered by the entire supervisory committee, led by the chair of the committee. The co-disciplinary exam will be administered by the co-disciplinary faculty on the supervisory committee.

Exam areas shall be designated at the time of the submission of the program of study. These may be changed only with the consent of the entire supervisory committee. Exam questions shall not be distributed in advance for either the general or subject examination. At least six months before the student plans to take his or her exams, the student shall notify committee members of his or her choice of areas/periods and submit a tentative reading list of primary and critical works for all examinations. The supervisory committee shall then meet to approve the areas, review the proposed reading list and address any oversights or imbalances.

The general examination consists of two parts, each covered in a three-hour sitting and each receiving equal weight. The examination is designed to test the breadth of the candidate's knowledge in the fields in question. The student will choose two areas in which he or she wishes to be examined, whether periods of literary history (e.g., British 19th century, American literature from 1865, British and American literature since 1945) or other areas of expertise (e.g., linguistics, history of the language, rhetoric, genre studies, literacy studies). The reading list, which is subject to the approval of the supervisory committee, should consist of works from the selected periods or areas of expertise which have achieved broad recognition or influence.

For the oral interdisciplinary subject examination, the student will prepare in advance, in the period specified above, a tentative reading list on the subject of the proposed dissertation for approval or revision by the supervisory committee. The subject examination will deal with current scholarship and methodology as well as with primary sources and other standard works in the field. The exam will be administered in a single two-hour sitting.

For students whose co-discipline is English, a single three-hour written examination will be designed in consultation with the coordinating discipline.

**Doctoral Dissertation Requirement**
The dissertation defense will be a one and a half hour discussion of the dissertation that includes all members of the Supervisory Committee. The majority of the committee must vote for approval of the dissertation in order for the student to graduate. See the School of Graduate Studies guidelines for further procedures and deadlines.
Entrepreneurship

Discipline Coordinator Michael Song, (816) 235-5841, songmi@umkc.edu

Click here to see Entrepreneurship and Innovation faculty who are members of the doctoral faculty.

Entrepreneurship and Innovation is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Program Intent**
The Ph.D. program in Entrepreneurship and Innovation is designed to train and develop research and teaching scholars in entrepreneurship and innovation. The Institute for Entrepreneurship and Innovation (IEI) has established a research agenda that focuses on the ways in which entrepreneurs develop, lead and transform today’s dynamic global businesses. Specifically, the Institute is assessing the values and risks of emerging technologies and investigating effective techniques for market opportunity analysis and the identification of new ventures in high-tech industries. In addition, the Institute is examining the success and failure factors of high-tech start-up firms, as well as the links between entrepreneurship, government policy, innovation, economic development and global competitiveness.

**Discipline-Specific Admission Requirements**
We expect prospective students to hold an undergraduate or master’s degree in business administration, entrepreneurship, marketing, mathematics, economics, statistics, engineering or science. Students are expected to have completed a master’s level intermediate statistical analysis course prior to enrolling in the program. All students must submit an application to the Interdisciplinary Ph.D. Program and to the IEI. The student must complete the Interdisciplinary Ph.D. application and prepare a formal written statement outlining his or her interests in and preparation for the program. To enter the entrepreneurship program, the applicant is expected to have an overall GPA of at least 3.3 on a 4.0 scale on all quantitative coursework. Applicants should pay particular attention to the narrative statement that accompanies their application. The IEI doctoral faculty gives substantial weight to this statement. It should provide a clear description of the applicant’s intellectual interests, how those interests evolved and should describe the research direction(s) that the applicant intends to pursue.

**Suggested Compatible Co-disciplines**
Economics, Mathematics, Social Science, engineering, computer science, physics, and public administration.

**Program Requirements**
Students who select entrepreneurship and innovation as their primary discipline must complete 12 credit hours of coursework in entrepreneurship theory and 12 credit hours in research methods. In addition, students must select 16 credit hours in electives from classes offered by their co-discipline or other departments. Students in the entrepreneurship program will take nine hours of coursework a semester for the first two years and three to six hours of coursework a semester for the third year while working as research assistants for designated faculty. The fourth and fifth years will be devoted to graduate research assistance and the dissertation. Upon completion of the coursework, students are expected to successfully complete a written examination in entrepreneurship. During the doctoral program, students are also required to participate in the Teaching Effectiveness Training program and teach two courses. In addition,
each student must complete at least one academic paper per year that will be submitted to a national research conference (by the end of the first year) or to top refereed academic journals.

Core Program Requirements

Theory
- ENT 5691 Doctoral Seminar in Theoretical Foundations of Entrepreneurship I or an approved elective
- ENT 5692 Doctoral Seminar in Theoretical Foundations of Entrepreneurship II
- ENT 5693 Doctoral Seminar in Technology, Innovation, and Entrepreneurship
- ENT 5694 Doctoral Seminar in Theories of the Firm and Strategy

Research Methods
- BDS 5548 Multivariate Statistical Analysis I
- ENT 5681 Multivariate Statistical Analysis II
- ENT 5682 Structural Equation Modeling
- ENT 5683 Mathematical Models for Entrepreneurship

Requirements for Entrepreneurship as a Co-discipline
Students who select entrepreneurship as a co-discipline must complete four doctoral seminars (12 credits) in Entrepreneurship Theory. Specific classes must be approved by the program director.

Other Discipline-Specific Special Requirements
A faculty supervisory committee is appointed by the program director at the end of the second year to assist each student in constructing a program of study that fits that individual’s background and interests. Students select one major area of specialization and complete requirements in an additional minor area that supports their major area of specialization. Throughout the program, doctoral students receive support and training that hone their skills as researchers, teachers and course developers. Any deviations from the program requirements must be recommended by the supervisory committee and must be approved by the program director.

Research paper
Each student must complete at least one academic paper per year. The first-year paper must be submitted to a national research conference by the end of the first year of the program. All other papers must be submitted to top refereed academic journals. Each student must have at least two “revise/resubmit” or accepted academic papers before graduating from the program. Failure to meet these research and publication requirements will result in the student being placed on probation or being dismissed from the program. Faculty will set a deadline by which doctoral students must complete an independent research paper and present their findings in a research workshop. The research project is supervised by a faculty adviser on a topic selected by the student and approved by the faculty adviser.

Comprehensive Examination and Admission to Candidacy
To be eligible to apply for candidacy, students must maintain an overall GPA of at least 3.3. Admission to candidacy is a formal University process signifying that a student has completed specific degree requirements and that the faculty expects that the student will successfully complete the degree program. Students are admitted to candidacy upon completion of the comprehensive examination in entrepreneurship. The supervisory committee administers this test after all area requirements are completed.

Dissertation
After earning candidacy, students must successfully complete a dissertation that demonstrates their ability to identify a significant research question or problem in entrepreneurship and apply appropriate research
techniques to its resolution. The dissertation must be an original and independent piece of work. Dissertations are supervised by a reading committee. After the dissertation has been written to the satisfaction of the reading committee, the student defends his or her dissertation research in a final oral examination by program faculty.

In-Residence Study
A doctoral student must spend at least four years of full-time, in-residence study beyond the baccalaureate degree. Experience has shown that the probability of successful completion of the program diminishes substantially unless the student is committed to full-time, in-residence work until all requirements are fulfilled. Prospective students should plan on full-time studies, including the summer semester, from the time of enrollment until the completion of the dissertation.

Teaching Effectiveness Training
Each year, the academic market places increasing weight on teaching skills. Many business schools, in fact, now require teaching presentations of all prospective faculty. All students are required to participate in the Teaching Effectiveness Training Program. Students will observe other instructors, including someone teaching their spring course assignment, draft a syllabus, and receive feedback on a microteaching session. Teaching assistants assigned to teach core courses will receive additional guidance from faculty course coordinators.

During the doctoral program, students will be required to teach two courses. They will receive feedback from peer classroom observations and an opportunity to share experiences and ideas informally at lunch gatherings of teaching assistants. Students are expected to put together formal teaching presentations that aid them both in the interview process and in the transition to full-time, tenure-track faculty.

Application Review Process and Timetable
Applications for admission and financial aid must be complete, including all supporting materials, by February 1 of each year. Applicants should take the GMAT or GRE in November or earlier because scores from later examinations will not arrive by the admissions deadline.
Geosciences

**Discipline Coordinator** Jejung Lee, (816) 235-6495, leej@umkc.edu

Click here to see Geosciences faculty who are members of the doctoral faculty.

Geosciences is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are *in addition* to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**
Specific admission requirements defined by the faculty of the Department of Geosciences follow the guidelines established by the School of Graduate Studies. Typically, a student would be expected to hold an undergraduate or master's degree in environmental sciences, geology, geography or a closely-related field. Opportunities within the department range from the physical sciences to the humanities. Because of the wide range of faculty expertise, and in keeping with the general spirit of the entire interdisciplinary program, the faculty of the Department of Geosciences has deliberately chosen to establish broad guidelines for admission of Interdisciplinary Ph.D. students. All prospective graduate students must attain a GPA of 3.0 or above, on a 4.0 scale, in all university work prior to admission. Three letters of recommendation from professors as well as a proposal from the prospective student detailing goals and expectations are needed for an evaluation of the application. Students are expected to have an adviser at the time of admission.

Non-native English-speaking applicants seeking geosciences as a primary discipline must demonstrate proficiency in English. This requirement can be satisfied by obtaining English proficiency certification from UMKC.

**Suggested Compatible Co-disciplines**
Faculty members in the Department of Geosciences conduct research in applied geophysics, atmospheric sciences, engineering geology, and environmental geology, stratigraphy, geochemistry, GIS, mineral deposits, neotectonics, geoarcheology, geomorphology, Quaternary environments, cultural and historical geography (Europe, Latin America, the Caribbean and West Africa) and historical cartography. Suitable co-disciplines for the Interdisciplinary Ph.D. program are practically unlimited (see www.iml.umkc.edu/geo for possibilities). Consultation with the principal graduate advisers for geology and geography would be a good way for the student to explore the possibilities. Previous and existing geology students have designated co-disciplines of chemistry, curriculum and instruction, engineering, computer science, and physics. Previous geography Ph.D. students have designated the social sciences consortium, curriculum and instruction as a co-discipline. Other excellent possibilities would include political science, economics, and history.

**Core Program Requirements**
Specific core program requirements follow the guidelines established by the School of Graduate Studies and are otherwise defined by the student's supervisory committee in consultation with each individual student.
Other Discipline-Specific Special Requirements
While there is no set minimum number of hours for all students, at least 50 percent of the course credit hours for students who select geosciences as their primary discipline must be taken in the Department of Geosciences. Students who have selected geosciences as a primary discipline or a co-discipline are expected to take no less than three courses from the Department of Geosciences as determined by their supervisory committee. Other special requirements are defined by the student's supervisory committee in individual consultation with each student.

Requirements for Comprehensive Examinations
Comprehensive examinations of all Ph.D. students who select the Department of Geosciences as the primary discipline will contain both written and oral components and may include questions from each of the co-disciplines and from related fields as determined by the student's examining committee. The examining committee consists of the student's supervisory committee and others who may be appointed by the dean of the School of Graduate Studies.

Interdisciplinary Work
The faculty of the Department of Geosciences are committed to an interdisciplinary approach and expect that all Ph.D. students, whether enrolled in the primary or the co-disciplinary category, will complete courses and conduct research with this principle in mind.
History

**Discipline Coordinator** Andrew Bergerson, (816) 235-5728, bergersona@umkc.edu

Click here to see History faculty who are members of the doctoral faculty.

History is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are *in addition* to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements. Please refer to the UMKC History Department website for up-to-date information on the Interdisciplinary Ph.D. program in History.

**Discipline-Specific Admission Requirements**

Except in unusual circumstances, students who select History as a discipline in the Interdisciplinary Ph.D. program must begin their work during the fall term. Applications must be received by the School of Graduate Studies no later than January 15. The doctoral faculty of the Department of History will review applications and make their recommendations for admission by the end of February. Applications that are incomplete as of January 15, and completed applications submitted after this deadline, may not be considered until the following year.

Applicants who choose History as their primary discipline, or applicants whose coursework in History will comprise at least 50 percent of the Ph.D. plan of study, must meet the criteria for admission specified by the School of Graduate Studies. In addition, they must:

1. Possess a master's degree in History or its equivalent.
2. Have earned a GPA of 3.5 on a 4.0 scale in graduate courses.

Students who choose History as a co-discipline and whose coursework in History will constitute less than 50 percent of the Ph.D. plan of study must meet the criteria for admission specified by the School of Graduate Studies. In addition, they must fulfill other entrance requirements specified by the doctoral faculty of the Department of History.

1) Co-discipline applicants who have a background in History will be considered as candidates for full admission.
2) Co-discipline applicants who have little or no background in History will normally be considered only as candidates for provisional admission. These applicants, if provisionally admitted, will be required to take a certain number of content courses at either the undergraduate or graduate level, to be determined by the student’s prospective mentor, and maintain a B+ average before being considered for full admission.

**All** applicants for admission must submit in addition to the requirements specified by the School of Graduate Studies:

1. A sample of written work.
2. A brief statement of academic and professional goals.
3. A 1,000-word essay that specifies a dissertation topic, demonstrates its interdisciplinary nature and shows how historical methods and approaches would be utilized.
4. A signed mentorship form. Primary discipline students must have a statement of support from at least two members of the department willing to serve on the student's supervisory committee. Co-discipline students must have a statement of support from at least one member of the department willing to serve on the supervisory committee.

Primary and Co-discipline applicants granted provisional admission will receive notification of deficiencies and of the conditions that must be met before full admission can be considered.

The doctoral faculty of the Department of History, in consultation with the History faculty as a whole, makes recommendations to the dean of the School of Graduate Studies on each application for admission. These recommendations reflect the majority vote of the doctoral faculty.

Applicants are advised that meeting the criteria of the School of Graduate Studies and the Department of History does not automatically result in admission to the Interdisciplinary Ph.D. program. When making recommendations to the School of Graduate Studies, the History faculty considers other factors as well, particularly the availability of faculty qualified to work in the applicant's area of interest and the availability of library resources and research materials.

Alternate Admission Criteria
In exceptional cases, candidates who do not meet either the School of Graduate Studies' or the History Department's minimum requirements for admission may be admitted under alternate criteria. The doctoral faculty of the department have adopted the following alternate criteria, one or more of which will be used to assess the applicant's ability: satisfactory performance in 5500- or above-level classes taken in the department's master's degree program; positive, written recommendations of our faculty willing to work with the applicant who have evaluated his or her previous work; satisfactory completion of specified courses in the department before consideration or reconsideration of a candidate's application; publications or comparable professional achievements related to the study of History.

The Plan of Study
If full admission is granted, the student who chooses History as a discipline must satisfy the residency requirements of the School of Graduate Studies, and must fulfill the course requirements of the Ph.D. plan of study as prepared by the student and his or her adviser(s) and approved by the Interdisciplinary Ph.D. Executive Committee.

A student whose primary discipline is History will be required to list at least 18 hours of graduate-level history courses (exclusive of dissertation credits) on the plan of study. These will include: 3 hours of HISTORY 5581GR (How To History I) if this course or its equivalent has not been taken before; 3 hours of HISTORY 5582GR (How To History II); 3 graduate colloquia; and at least one graduate-level research seminar. The remainder of the program must be in courses numbered 5500 or above.

Students for whom History is a co-discipline will be required to take, at the minimum, the five core courses of the department's M.A. program: HISTORY 5581GR (How To History I); HISTORY 5582GR (How To History II); two graduate colloquia; and one graduate-level research seminar. In exceptional or unusual circumstances, some of these hours may be waived upon petition to the student's supervisory committee.

Any student who switches disciplines in the course of his or her graduate career, either adding history as the primary or co-discipline, or changing History from the co-discipline to the primary discipline, must fulfill all of the requisite doctoral requirements in History for that level (e.g., number of course hours, distribution requirements, exams).
**Requirements for Comprehensive Examinations**

The School of Graduate Studies guidelines for the comprehensive examination can be found here. The History Department requires that the comprehensive examination of a student listing History as a discipline include both a written and an oral component. The History members of the supervisory Committee will determine the structure and duration of the History component of the comprehensive exam.

For students with History as the primary discipline, there is a list of doctoral fields appended below. The written comprehensives will consist of three examinations, the first from a Chronological/National field; the second from a Topical/Interdisciplinary field; and the third from either the Chronological/National or Topical/Interdisciplinary list of fields.

For co-discipline students, the written comprehensives will consist of questions drawn from one of the Chronological/National fields, and questions from one of the Topical/Interdisciplinary fields appended below.

For both primary and co-discipline students, it is assumed that each examination will include a historiographical component.

Written comprehensives will be administered in the first two weeks of November and the first two weeks of March, unless the supervisory committee has allowed an exception.

In the oral examination conducted by the supervisory committee, both primary and co-discipline students will be expected to answer questions of an interdisciplinary nature.

A student with History as either a primary or co-discipline is considered to have passed the comprehensive examination if the History member/s of the examining committee vote that the candidate passes, and if no more than 20 percent of the examining committee vote to fail the student. If failure is reported, the examining committee will either recommend termination as a Ph.D. student or suggest additional work or other remedial measures. Furthermore, a student who has failed may not take a second examination for at least 12 weeks. Failure of a second comprehensive examination shall automatically preclude candidacy at this institution.

**Dissertation Requirements**

A student for whom History is a discipline must meet the requirements of the History Department for the discipline, as well as those of the School of Graduate Studies. On a Ph.D. plan of study, where history is the primary discipline, there must be a minimum of 12 credits in HISTORY 5699R (dissertation hours). The final examination in defense of the dissertation is open to all members of the doctoral faculty, who may attend as interested observers. The supervisory committee and its chair will determine the format and procedures of the defense. The date, time and location must be announced and published at least two weeks before each final examination takes place.

For a student with History as a discipline, this examination may be conducted only after the dissertation has been approved by the History member/s of the supervisory committee, and may not be administered when UMKC is not officially in session.

The defense of the dissertation is approved when a majority of the supervisory committee, including the History member/s of the committee, recommends approval and signs the Report of Result of Final Doctoral Examination form. Within 48 hours of the defense, the supervisory committee chair will report the results of the final dissertation examination in writing to the candidate.
Language Requirements
Those students for whom History comprises their Primary discipline must complete a competency examination in at least one foreign language that will be relevant to their dissertation research and/or future career. The language exam format will be determined by the student's supervisory committee and will be assessed by a member of the department of foreign languages and literatures or another expert in the field. Students can also choose to complete two years of undergraduate language study in lieu of a challenge exam. Students with research interests that require competency in more than one language will be encouraged to be certified in relevant languages, but will be examined at the discretion of the supervisory committee.

Those students with History as their co-discipline will ordinarily not be required to demonstrate language competency unless their research topic requires it. It is strongly recommended, however, that all I PhD students choosing History as either primary or co-discipline should pursue some kind of language study or equivalent research skill, such as in quantitative methods.

Retention in the Doctoral Program
A doctoral student must maintain a 3.0 grade-point average in each semester of coursework taken at UMKC. A person receiving a failing grade in a class will normally not be retained in the doctoral program. In exceptional cases, such a student may petition to be placed on probation for one semester. A student who falls below a 3.0 grade-point average, or whose work is deemed unsatisfactory at any stage of doctoral work by the History member/s of the supervisory committee, with the concurrence of a majority of the resident doctoral faculty of the department, may be declared ineligible for further study.

History Department Policies Regarding Doctoral Faculty
No doctoral student shall be permitted to form a supervisory committee on which the only History faculty members are former faculty at UMKC or adjunct faculty members. Refer to the Web site of the School of Graduate Studies for a list of current doctoral faculty.

Ordinarily, emeritus professors of doctoral faculty status in History shall be allowed to serve on doctoral committees for no more than five years after retirement. Such service shall only be on committees that the required faculty member was already on at the time of retirement. Emeritus faculty members can have their doctoral status extended beyond five years only if at least two-thirds of the members of the History doctoral faculty vote to approve this.

Emeritus professors in History cannot chair dissertation committees. They can, however, co-chair with the approval of a majority of the regular resident doctoral faculty.

The History department adheres to the guidelines of the American Historical Association with regard to student ethics and the responsible conduct of research. The AHA Statement on Standards of Professional Conduct can be found at http://www.historians.org/pubs/Free/ProfessionalStandards.cfm.
## Doctoral Fields

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**Humanities Consortium**

Discipline Coordinator Larson Powell, (816) 235-1316, powelllar@umkc.edu

Click here to see Humanities faculty who are members of the doctoral faculty.

Social Science Consortium is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**

The Humanities Consortium is only available as a co-discipline option, not as a primary discipline. Application dossiers for the Humanities Consortium must be complete by January 15 for fall admission or September 1 for spring admission. Dossiers should include:

- an application for graduate study
- a brief statement of academic and professional goals (1 page)
- GRE scores
- three (3) letters of recommendation from individuals who are academically or professionally qualified to assess the applicant's ability to pursue doctoral work
- transcripts from all post-secondary schools attended
- a well-focused research proposal that demonstrates the applicant’s rationale for application to the Humanities Consortium as a co-discipline and the interdisciplinary nature of the plan of study (1 page)
- a sample of academic writing (20 pages or less)

**Qualifying Requirements for Full Admission to the Humanities Consortium**

Applicants to the Humanities Consortium as a co-discipline will be expected to hold a master’s degree (MA, MFA, MM, or equivalent MS) or equivalent coursework in a Humanities-related field.

- a general verbal score on the Graduate Record Examination (GRE) in the 60th percentile or better
- TOEFL minimum composite score of 550 or IELTS score of 6.0 (international applicants). Applicant should be able to demonstrate facility in English appropriate for graduate work
- a GPA of 3.5 or better in previous graduate study

Applicants who do not meet the requirements above may be granted provisional admission for one year by the doctoral faculty in the Humanities Consortium. An applicant admitted provisionally receives notification of deficiencies and of the conditions which must be met within the first year before the doctoral faculty will consider an applicant for full admission. At the end of the first year, the provisional admission will be reviewed.

Applicants are advised that meeting the criteria of the School of Graduate Studies and the Humanities Consortium does not automatically result in admission to the Interdisciplinary Ph.D. program. When making admission decisions, the doctoral faculty of the Humanities Consortium considers other factors as well, particularly the availability of faculty qualified to work in the applicant’s area of interest and the availability of library resources and research materials.

Recommendations for admission are made by a sub-committee of the Humanities Consortium doctoral faculty which reviews all applications. Newly admitted students are assigned an interim Humanities Consortium faculty adviser, pending formation of their supervisory committee.
Foreign Language Study
Applicants must demonstrate competency in the foreign language or languages necessary to pursue the stated research plan (or describe a plan of study to achieve this facility). Students may be required, at the discretion of their dissertation committees, to demonstrate or acquire additional language skills to undertake or complete their dissertations.

Suggested Compatible Coordinating Disciplines
art history, Curriculum and instruction, English, history, and religious studies.

Core Program Requirements
As a means of introducing doctoral students to interdisciplinary work and to the various fields of inquiry in the Arts & Humanities, the Humanities Consortium Program of Study requires 15 hours of dedicated coursework.

The following three courses (9 hours) are required:
Humanities 5500: Introduction to Interdisciplinary Humanities (3)
Humanities 5510: Critical Theory in the Humanities (3)
Humanities 5520: Research & Creative Methodologies in the Humanities (3)

Two graduate-level courses (3 credits each, numbered at the 400 level or above) are also required, totaling 6 hours. The two elective courses may be in any discipline except the student’s primary discipline, but these courses are subject to approval by the student’s primary advisor, the Humanities Consortium Director, and the instructors of the chosen courses. No more than one course that is classified as independent study may be used as an elective course in the Humanities Consortium. No grade below B in any course will be accepted to apply toward the Ph.D. degree.

Transfer credit will be at the discretion of the dissertation committee in consultation with the Humanities Consortium Coordinator. No more than 6 hours of transfer credit will be allowed.

Retention in the Doctoral Program
Students are expected to maintain a 3.0 GPA during their program of study. A student who falls below a 3.0 GPA, with the concurrence of the doctoral faculty in the Humanities Consortium, may be declared ineligible for further study. A student receiving the grade of F in any graduate course during the program of study will not normally be retained in the program.

Comprehensive Examination Guidelines
The School of Graduate Studies guidelines for the comprehensive examination can be found here.

Before advancing to Ph.D. candidacy, students in the Humanities Consortium will take a comprehensive examination that includes both written and oral components. Each student's dissertation committee will be charged, in accordance with SGS guidelines, with setting the requirements for the comprehensive examination and for evaluating the results of this exam.

Interdisciplinarity
Students in the Humanities Consortium will be expected to devise a program of study that demonstrates a commitment to interdisciplinary work and to develop a dissertation that illustrates interdisciplinary practices.
Mathematics

**Discipline Coordinator** Noah Rhee, (816) 235-2854, rheen@umkc.edu

Click here to see Mathematics faculty who are members of the doctoral faculty.

Mathematics is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**

**Mathematics as a Primary Discipline:**
To get full admission, an applicant should have

1. Preferably a Master's degree in mathematics/statistics with strong records that include graduate level courses in mathematics/statistics courses offered by an accredited college or university;
2. An overall grade-point average of at least 3.0 out of 4.0 scale;
3. At least 155 on Quantitative Reasoning in GRE;
4. In the case of foreign students, at least 80 on the internet based TOEFL test.

An applicant may be given a provisional admission if the condition (1) in the above is not met, provided one of the following two conditions is satisfied: a Bachelor’s degree in mathematics/statistics from an accredited college or university, or a Bachelor’s degree in another subject including evidence of a strong performance in at least three mathematics courses beyond Calculus I, II, and III.

**Mathematics as a Co-discipline:**
To get full admission, an applicant should have a Bachelor’s degree in mathematics/statistics from an accredited college or university, or a Bachelor’s degree in another subject including evidence of a strong performance in at least three mathematics courses beyond Calculus I, II, and III. An applicant with mathematics as Co-discipline may get a provisional admission if the above conditions are not fully satisfied at the time of application.

**Qualifying Requirements for Students with Mathematics as a Coordinating Discipline**
A student who has a Master's degree in mathematics or statistics from an accredited university with full admission may be qualified to the interdisciplinary Ph.D. program in the Department of Mathematics and Statistics if s/he has met the qualifying course requirements (if not, s/he has to take the deficient courses to be qualified). See the department website for details and the list of Interdisciplinary Ph.D. qualifying courses.

**Suggested Compatible Co-disciplines**
Cell biology and biophysics, molecular biology and biochemistry, computer science, telecommunication and computer networking, electrical and computer engineering, chemistry, curriculum and instruction, physics, geosciences, and engineering.
Core Program Requirements
The requirements for the Ph.D. fall into five major categories: coursework, special requirements set by the supervisory committee, interdisciplinary work, comprehensive examination and dissertation.

Mathematics as Primary Discipline:
A student can have either mathematics or statistics as the emphasis area when the student declares mathematics as the coordinating unit.

After fully qualified, students must take the doctoral core courses in their area of emphasis, and one additional doctoral core course from the other emphasis area. For the doctoral core courses, see the department website for details. Students may need to take additional graduate elective mathematics or statistics courses deemed necessary by the Interdisciplinary Ph.D. supervisory committee of the student. Transfer credit may be accepted (in accordance with the minimum 21 credit residency requirement set by the School of Graduate Studies). Students must satisfy the co-discipline course work requirement set forth by the co-discipline. Students must pass the comprehensive examination. Student's dissertation must represent a significant contribution to mathematics.

The student with mathematics as the primary discipline must pass a comprehensive examination in mathematics or statistics after completing the doctoral core courses and completing any special requirements and interdisciplinary requirements. An oral examination will be given after a student passes a written comprehensive examination.

Mathematics as a Co-discipline:
The number of hours required in mathematics for a student who chooses mathematics as a co-discipline will be at least 12 graduate credit hours. Up to six of these credit hours may be at the 400-level. After completing the required course work, students must file the form entitled "Department of Mathematics and Statistics Comprehensive Examination Approval Form for Interdisciplinary Ph.D. Students with Mathematics as the Co-discipline" with the Interdisciplinary Ph.D. coordinator of Mathematics.
Molecular Biology and Biochemistry

Discipline Coordinator Karen Bame, (816) 235-2243, bamek@umkc.edu

Click here to see Molecular Biology and Biochemistry faculty who are members of the Doctoral Faculty

Molecular Biology and Biochemistry is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
No additional requirements. Due to the sequencing of coursework, new students selecting molecular biology and biochemistry as their primary discipline will normally only be admitted in the fall term. In general, initial admission will be granted into an M.S. track leading to full admission to the Ph.D. program.

Qualifying Requirements for Full Admission
Minimum of 16 hours of approved graduate coursework at UMKC toward the Ph.D. program with a grade-point average of at least 3.0 on a 4.0 scale. International students must establish English proficiency.

Suggested Compatible Co-disciplines
Chemistry, cell biology and biophysics, pharmaceutical sciences, pharmacology, oral biology and physics.

Core Program Requirements

Molecular Biology and Biochemistry as a Primary Discipline
Minimum core requirement is 33 course credit hours and 15 dissertation research credits in molecular biology and biochemistry for a total of 48 post-baccalaureate credit hours, distributed as indicated below:

Discipline courses required:
- Biochemistry LS-MBB 5561 (4 credits)
- Biochemistry LS-MBB 5562 (4 credits)
- Experimental Molecular Biology LS-MBB 5596 or LS-MBB 5597 (2 credits)
- Seminar in Molecular Biology and Biochemistry LS-MBB 5611 (2 credits)
- LS-MBB 5690 / LS-CBB 5690 Analytical Methods (5 credits)

An additional 3 credits must be selected from among the following courses for a total of 20:
- Eukaryotic Molecular Biology, LS-MBB 5503 (3 credits)
- Structure and Function of Proteins, LS-MBB 5565 (3 credits)
- Physical Biochemistry, LS-MBB 5567 (3 credits)
- Graduate Developmental Biology, LS-MBB 5509 (3 credits)
Related Discipline Courses Required
Ten additional course credit hours in one related discipline or combination of disciplines. Related disciplines are defined as cell biology and biophysics, chemistry, pharmaceutical sciences, pharmacology, oral biology or other. Seminar courses may be part of this component of required courses, up to a maximum of three for the program, as are two additional credits of advanced experimental molecular or cell biology.

Electives
Each student's supervisory committee may require additional courses in any University-approved doctoral discipline as preparation for specific areas of research. These additional requirements may not exceed nine credit hours beyond the 30 credits required for the basic course core. These electives may be taken at any time during enrollment as a graduate student, up to the semester prior to that in which the dissertation defense will occur. No more than seven course credit hours of 5500-level courses, or their equivalent, can be taken at institutions outside UMKC. Remember that 5700-level courses may not be used to satisfy course requirements for the program.

Molecular Biology and Biochemistry as a Co-discipline
Students who select this discipline as a co-discipline must take a minimum of 11 credit hours of core courses, including:

- LS-MBB 5561 General Biochemistry I (4 credits)
- LS-MBB 5562 General Biochemistry II (4 credits)
- LS-MBB 5611 or LS-CBB 5612 (1 credit)
- Plus sufficient additional core courses to constitute the required percentage of the overall program of study.

Other Discipline-Specific Special Requirements

Research
The School of Biological Sciences offers research opportunities in many areas of modern life sciences that address problems of basic life processes at the cellular, subcellular and molecular levels. Graduate studies offered with primary participation of the faculty in the Division of Molecular Biology and Biochemistry are based on the belief that training for research can be best accomplished by having an appropriate breadth of background coursework, combined with a depth of specialization in a particular research area. The faculty have established guidelines that have a minimum of formal requirements so that students have the flexibility to advance at a pace consistent with development of the individual. Diligence, creativity and independent thinking are the qualities desired in the candidate's dissertation work.

Teaching
As part of their graduate training, all Ph.D. students with molecular biology and biochemistry as the primary discipline participate in the teaching program of the School of Biological Sciences. This is an important component of preparation for a career in academia or other institutions and aids in the development of effective communication skills.
Seminars
Students will participate in seminars in which current developments in various areas of life sciences will be discussed and explored. Students also will present seminars on their own work or on work in the current scientific literature. The latter is taken as part of the core of graduate-level courses in the primary or co-disciplines.

Course Restrictions
5700-level courses may not be used to satisfy molecular biology and biochemistry discipline-specific course requirements.

Dissertation
The dissertation abstract and proposal must be submitted to and approved by the supervisory committee prior to beginning the third academic year of study after enrollment in the Ph.D. program.

Retention in Program
For students with this discipline as their primary discipline, no more than one C grade in a core course or two C grades in any course, and no D or F grades, are permitted. A student who receives more than two C grades will be recommended for termination from the doctoral program. A student who receives a D or F grade will be dropped from the program.

The doctoral faculty in molecular biology and biochemistry meets formally at the end of each academic year to discuss and evaluate the progress of all graduate students. Each student's committee also meets with the student at least once a year. After the annual doctoral faculty meeting, all students receive written evaluations of their status and a report is placed in each student's file.

Requirements for Comprehensive Examinations
To become a Ph.D. candidate, the student must pass a comprehensive exam that may be taken on completion of essentially all of the coursework specified in the student's study plan and on satisfactorily fulfilling the requirements for full admission. This must be done before the beginning of the third academic year after admission to UMKC with graduate student status, or (for part-time students) immediately after completion of 25 credit hours approved by the discipline-doctoral program at UMKC. This exam will be administered by the student's supervisory committee and will test the student's knowledge of background material, as well as the student's ability to analyze and interpret information and solve problems.

Written Portion
The written examination for students who have molecular biology and biochemistry as their primary discipline has two components. The first component consists of a written, general comprehensive exam testing an integrated knowledge of material acquired through the courses and the seminar components in the primary and secondary disciplines. The second component of the written examination consists of an NIH-style grant proposal that the student will prepare. The topic of the research proposal will be determined by the student in consultation with the student's supervisory committee.
Oral Portion
The oral examination also has two aspects: (1) questions covering the grant proposal prepared by the student for the written examination and (2) other related material in the student's area of specialization, including fundamental knowledge of the primary and secondary disciplines.
Music Education

Discipline Coordinator Lindsey Williams, (816) 235-2354, williamslin@umkc.edu

Click here to see Music Education faculty who are members of the doctoral faculty.

Music Education is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements

In addition to the general criteria, applicants selecting music education as a discipline must:

- Have an aggregate minimum undergraduate GPA of 3.0 and graduate GPA of 3.5 on a 4.0 scale.
- Submit a thesis or equivalent evidence of written scholarship.
- Have minimum scores of 143 on the verbal, 138 on the quantitative and 3.0 on the writing portion of the GRE.
- Have an acceptable on-campus interview with doctoral faculty members from this discipline.
- Demonstrate comprehensive musicianship through videotape, performance, classroom teaching, audition or jury.
- Have a minimum of three years K-12 teaching or music therapy clinical experience or the equivalent.
- Perform an applied audition.

Alternate Admission Criteria

Applicants may ask to be considered under the following alternate admission criteria:

- Have an undergraduate GPA of 3.0 or a graduate GPA of 3.5 on a 4.0 scale.
- Submit a thesis or equivalent evidence of written scholarship.
- Score 900 or above on the SAT with both the verbal and math scores above 400; or score 21 or above on the ACT.
- Have an acceptable off-campus interview with at least two UMKC music education/therapy doctoral faculty or have two written recommendations from UMKC doctoral faculty.
- Have a minimum of three years K-12 teaching/clinical experience or the equivalent.
- Demonstrate comprehensive musicianship through a cassette tape or videotape.
- Perform an applied audition.

Qualifying Requirements for Full Admission

- Have a GPA of at least 3.5 in courses to be counted for the degree.
- Have an acceptable interview with members of the student's supervisory committee.
- Have acceptable scores on designated tests covering music history, music theory and music education/therapy.
Suggested Compatible Co-disciplines
Curriculum and instruction is the primary co-discipline. Other potential co-disciplines can be considered by students in consultation with primary discipline coordinator and faculty.

Core Program Requirements
Music education will function only as a primary discipline in the UMKC Interdisciplinary Ph.D. program. Because of this, the following minimum standards apply only to students with music education as their primary discipline.

Research
Two important goals for students with music education as their primary discipline and education as a co-discipline will be to develop research skills and increase their awareness of important research literature. Through introductory courses at the Conservatory, students will become acquainted with research techniques, problems and literature in music education/therapy. Additional research courses in the School of Education and other academic units will provide more tools for structuring research designs and analyzing data. Students in the program will assist their faculty mentors in research while developing a research agenda of their own. The number and nature of research classes placed on each student's program of study will be determined by the background, goals and interests of the student.

Teaching Techniques and Philosophies
While students may have widely divergent career goals, ranging from becoming a district music supervisor in a K-12 program, training undergraduate music therapists or being a college choral conductor, all will be actively involved in the education process in some form. To develop a comprehensive acquaintance with education at all levels, Ph.D. students will enroll in methods classes, will be assigned to observe and teach undergraduate classes at UMKC and will observe and help supervise student teachers in local K-12 schools. Courses in the Conservatory, the School of Education and other academic units will help students efficiently interpret the techniques and philosophies they observe in the classroom, determine their own goals and philosophies, and consequently, become better teachers.

Because faculty members from the Conservatory and the School of Education strongly believe that theories, philosophies and techniques associated with teaching carry more meaning for those who have experienced the teaching environment, the Ph.D. requires three years of K-12 teaching experience, music therapy clinical practice or the equivalent for admission to the program.

Seminars and Core Courses
While research and teaching are areas of great importance, it is anticipated that most students will need theoretical information to structure their teaching and research endeavors. Courses in theories of learning in general and in music, as well as seminars on the latest teaching techniques and methodologies, will give students a knowledge base to better facilitate their own teaching and to prepare future students to teach. Particular attention will be given to cultivating critical thinking skills in students and nurturing multicultural values.

Program Requirements
It is anticipated that most students selecting music education and education as their disciplines will have completed a master's degree in music education or a related field. Students with backgrounds in music therapy are also encouraged to apply.

While total degree-hour requirements for the Ph.D. will vary depending on each student's career goals, previous experience and training, it is anticipated that for most students, course requirements will include 35 to 45 pre-dissertation hours. If a student has completed a bachelor's
or master's degree in some area other than music education/therapy, additional work beyond this approximate range will probably be required. No specific course requirements are designated. Depending on the previous work of the individual and the career direction sought, each program of study, including foreign language requirements, will be considered on an individual basis.

Co-discipline Requirements
Curriculum and instruction is the primary co-discipline for music education in the Interdisciplinary Ph.D. program. It is anticipated there will be many permutations which are a product of this combination. A student's interests in School of Education classes may gravitate toward research, administration, counseling, philosophical and historical foundations or an infinite number of additional possibilities. Within the spirit of flexibility, which is the essence of the Interdisciplinary Ph.D. program, students are allowed to enroll in other fields of study such as history, philosophy, psychology, art and non-music education/therapy Conservatory classes. The primary area of study outside music education and/or music therapy will constitute from 15 to 50 percent of pre-dissertation hours in the planned program of study.

Comprehensive Examination Guidelines
Written and oral comprehensive exams will be taken during the semester when the student completes all, or (in some special cases) nearly all, of the classes outlined in the planned program of study or the semester immediately following the completion of classes. This could include the summer term, depending on the availability of supervisory committee members. The exams must be scheduled with the supervisory committee no later than four weeks before they are to occur. No particular period is designated specifically for comprehensive exams; however, the oral exam should be taken the week following the written portion. The comprehensive exam will include a total of 18-24 hours of written and oral questions. The hours will be divided between the primary discipline of music education (not to exceed 60 percent of the total number of hours on the exam) and the co-discipline of education (15-40 percent of the hours) so as to reflect the student's planned program. Exams in the primary discipline area of music education will include 12-18 hours of written questions in the student's major area (e.g., choral music education, general music education, instrumental music education). A Ph.D. student may elect to substitute written research projects previously approved by the supervisory committee for this portion of the exam. Examples of such projects would include, but are not limited to, preliminary research distinct from the dissertation or the development of a curriculum project for a designated level and subject matter. In addition, a two-hour oral exam pertaining to research projects and courses completed by the student, a three-hour written exam relating to general knowledge of music research techniques and procedures, and a one-hour written exam pertaining to music education or music therapy history and philosophy will be required.
**Oral Biology**  
**Discipline Coordinator** Mary P. Walker, Director of Graduate Research Programs (816) 235-2825, walkermp@umkc.edu

Click here to see Oral Biology faculty who are members of the doctoral faculty.

Oral Biology is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are *in addition* to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Overview**  
In concert with the School of Graduate studies, the Department of Oral Biology offers a doctoral program that must include the in-depth study of at least two disciplines. Students in the Oral Biology program can choose to participate in any of the department's three areas of research focus:

- **Biomaterials/Bioengineering of Biological Tissues and Replacements**  
The overall goal of this program is to apply an integrated approach involving innovative computer modeling and organic synthesis, novel biocompatibility evaluation, comprehensive materials characterization, and mechanistic development of improved dental biomaterials. One component of this program is an engineering component that emphasizes micro- and nano-structure/property characterization of natural biomaterials such as bone, dentin, and enamel as a tissue engineering approach to the development of replacement materials.

- **Mineralized Tissue Biology**  
This program is aimed at determining basic biological mechanisms and the cause and treatment of disease of bone and teeth during development and in the adult. Approaches include the use of basic in vitro methods combined with genomics, proteomics, bioinformatics, and transgenic technology.

- **Translational and Clinical Research**  
Translational and clinical research involves results from clinical observations translating into basic research and incorporates basic research findings into clinical assessment and practice. The identification, characterization and synthesis of materials for clinical use requires the combined efforts and expertise of clinical scientists, biostatisticians, bioengineers, geneticists, life scientists, chemists, physicists, and computer scientists.

**Program**  
The Interdisciplinary Ph.D. program is composed of a significant supervised research effort along with courses in areas such as dental biomaterials, research design, clinical research methodology, statistics, grantsmanship, biochemistry, proteomics, genomics, histology, and pathology. The primary didactic effort will be in oral biology (biomaterials/bioengineering of...
biological tissues and replacements, mineralized tissue biology, or translational/clinical research) and the student will select a secondary area of concentration from other Interdisciplinary Ph.D. disciplines.

**Duration**
The length of the program is dependent on the academic background and abilities of the applicant and may vary from two to five years. The program culminates with an Interdisciplinary Ph.D. in Oral Biology degree and the designated co-discipline or co-disciplines.

**Objectives**
The course requirements for the Interdisciplinary Ph.D. are not predetermined, but rather are formulated by the student in consultation with the Oral Biology Director of Graduate Research Programs and the doctoral faculty who will serve on their supervisory committee. The developed program of study will meet the student’s individual needs and research interests, satisfy discipline-specific requirements, and assure upon graduation that students are able to:

- Demonstrate appropriate depth and breadth of knowledge in their disciplines
- Use skills of interdisciplinary scholarship and research to integrate multiple perspectives
- Work effectively in a collaborative environment
  Effectively communicate results of their research to diverse audiences
- Use objective assessment for personal and professional improvement and development
- Apply ethical principles to all aspects of their professional life
- Think critically and creatively as a self-directed interdisciplinary researcher
- Develop skills to become good mentors and communicators
- Successfully complete the CITI Research Ethics Tutorial at: https://www.citiprogram.org/default.asp. Upon completion they will print the Certificate of Successful Completion, and turn it in to the Oral Biology Administrative Office to be placed in their file.

**Eligibility**
An applicant must meet the minimum general requirements for admission to Interdisciplinary Ph.D. study at UMKC and must satisfy grade point average requirements as stated in the admission requirements section of the Academic Regulations and Information of Doctor of Philosophy Studies at the University of Missouri-Kansas City (http://sgs.umkc.edu/iphd/index.asp). To advance to candidate status, the student must successfully complete written and oral comprehensive examinations relevant to their primary and co-discipline(s).

**Discipline-Specific Admission Requirements**
In addition to the general minimum requirements for admission to interdisciplinary Ph.D. study, an applicant must hold either (1) a baccalaureate degree or (2) a D.D.S. or equivalent degree. In general, an applicant will be expected to have a minimum cumulative GPA of 3.0 based on a 4.0 scale for all undergraduate work, including dental school (if applicable).
Applicants must also meet the minimum GRE requirements.

<table>
<thead>
<tr>
<th>GRE</th>
<th>Old Score Scale</th>
<th>New Score Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantitative</td>
<td>533</td>
<td>145</td>
</tr>
<tr>
<td>Verbal</td>
<td>533</td>
<td>155</td>
</tr>
<tr>
<td>Analytical Writing</td>
<td>4.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

All application materials should be submitted prior to March 1 for students wishing to begin their study in the fall semester; however, applications will be accepted throughout the year. Evaluation criteria include the following:

- Transcripts. Analysis of transcripts from all prior institutions is required.
- Letters of recommendation. Three letters of recommendation are required from current or former teachers who are familiar with the applicant's past achievements and research ability.
- Personal statement from applicant. The applicant must submit a letter describing why he or she is interested in pursuing an Interdisciplinary Ph.D. study in oral biology, how the experience of the program may be used by the candidate in the future, and a list of potential research interests.
- Interviews. Interviews are not required; however, interviews are preferred and will be arranged upon the candidate's request. Successful interviews may enhance the candidate's chance of acceptance.

**Suggested Compatible Co-disciplines**
Cell biology and biophysics, entrepreneurship and innovation, molecular biology and biochemistry, pharmacology, chemistry, physics, engineering, computer science, electrical and computer engineering, telecommunication and computer networking, curriculum and instruction, public affairs and administration (public health emphasis), and mathematics.

**Core Program Requirements**
The required minimum core curriculum for students with oral biology as a discipline will consist of a minimum of nine credit hours in oral biology. See minimum course requirements below. The student's supervisory committee may require additional courses for an Interdisciplinary Ph.D. program which includes the department of oral biology as the primary discipline or as a co-discipline. Ph.D. students with oral biology as their primary unit must either complete these courses at UMKC or must have completed equivalent coursework at approved institutions at the time of their admission to the Interdisciplinary Ph.D. program. Students are referred to other sections of the current UMKC general catalog for listings of appropriate graduate-level courses. The curriculum requirements also include a minimum of 3 credit hours of ethics training. In accordance with the general requirements for the Interdisciplinary Ph.D. program, a Ph.D. student must prepare a plan of study in conjunction with his or her dissertation supervisor and
supervisory committee during the first year of Ph.D. studies. A student's plan of study must include coursework in oral biology as well as in at least one other discipline.

**Minimum Coursework Requirements**

Coursework must satisfy all discipline-specific requirements and may include additional courses as appropriate to the student's research focus. Course selection will be made in conjunction with the Department of Oral Biology Director of Graduate Research Programs and the committee chair.

General requirements are listed below:

- The Plan must include coursework from all of the student's disciplines
- No more than 60 percent of the total coursework taken at UMKC and included on the Ph.D. Plan of Study, exclusive of dissertation hours, may be from any one discipline
- Coursework from disciplines other than the ones to which the student has been admitted may be included on the Plan of Study and counted in the total percentage
- No more than 25 percent of the total coursework may be from disciplines not formally participating in the Interdisciplinary Ph.D. Program
- The Plan must include at least 30 didactic hours beyond the baccalaureate degree, exclusive of dissertation research hours, in courses taken at UMKC or in courses taken at another institution which are approved for transfer by the student's Supervisory Committee
- The Plan must include a minimum of 9 credit hours, exclusive of dissertation research hours, in a co-discipline area to which the student has been admitted
- The Plan must include at least 12 hours of dissertation credits

The required core curriculum will consist of the following courses:

<table>
<thead>
<tr>
<th>Course Name/Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-SCI 5751</td>
<td>Elements of the Scientific Method</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO-SCI 5752</td>
<td>Research Methods in Oral Biology</td>
<td>1-5</td>
</tr>
<tr>
<td>RES-ME 5700</td>
<td>Introduction to Research Methodology</td>
<td>2-3</td>
</tr>
<tr>
<td>RES-ME 5704</td>
<td>Introduction to Biostatistics</td>
<td>2-3</td>
</tr>
<tr>
<td>RES-ME 5706</td>
<td>Dissertation Writing</td>
<td>1</td>
</tr>
</tbody>
</table>

Dissertation credits required (no less than 12)

<table>
<thead>
<tr>
<th>Course Name/Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR-BIO 5699</td>
<td>Dissertation Research</td>
<td>1-12</td>
</tr>
</tbody>
</table>

Examples of additional courses applicable to the program:

<table>
<thead>
<tr>
<th>Course Name/Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-SCI 5700</td>
<td>Biomaterials Teaching</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5706</td>
<td>Growth and Development I</td>
<td>1</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>BIO-SCI 5707</td>
<td>Growth and Development II</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO-SCI 5710</td>
<td>Genetics and Biochemistry of Craniofacial Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5739</td>
<td>Biomaterials for the Dental Specialist</td>
<td>1</td>
</tr>
<tr>
<td>BIO-SCI 5740</td>
<td>Oral Pathology I</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5742</td>
<td>Biomaterials for the Restorative and General Dentist</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5743</td>
<td>Advanced Seminar in Biomaterials</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO-SCI 5747</td>
<td>Research Instrumentation Used in Dental Biomaterials</td>
<td>2-4</td>
</tr>
<tr>
<td>BIO-SCI 5750</td>
<td>Special Problems in Dental Biomaterials</td>
<td>2-4</td>
</tr>
<tr>
<td>BIO-SCI 5759</td>
<td>Special Problems in Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5760</td>
<td>Physiology of Oral Mineralized Tissues</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5790</td>
<td>Directed Research in Oral Biology</td>
<td>1-6</td>
</tr>
<tr>
<td>BIO-SCI 5801</td>
<td>Readings in Immunology</td>
<td>1-3</td>
</tr>
<tr>
<td>BIO-SCI 5802</td>
<td>Immunopathology</td>
<td>2</td>
</tr>
<tr>
<td>BIO-SCI 5805</td>
<td>Molecular Biology of Oral Microflora</td>
<td>3</td>
</tr>
<tr>
<td>BIO-SCI 5830</td>
<td>Structural Characterization of Dental Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>SGS 5550A or SGS 5550B or SGS 5550C</td>
<td>Special Topics in the Responsible Conduct of Research</td>
<td>3</td>
</tr>
<tr>
<td>SGS 5550D or SGS 5550E or SGS 5550F</td>
<td>Special Topics in the Responsible Conduct of Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Departmental Research Orientation**

Enrollment in BIO-SCI 5751 Elements of the Scientific Method required

- Interdisciplinary Ph.D. students will select and rotate through a minimum of four laboratories in the Department of Oral Biology conducting a short research project in each. At the end of the semester, a report is required reviewing the research project and instrumentation in each laboratory. Students are also required to attend the weekly Department of Oral Biology Seminar Series and the monthly Professional Development Seminar Series. Research presentations cover a variety of biological, engineering and psychological disciplines relevant to oral science education and the oral health care profession. Presentations will be by faculty, students, and invited guest lecturers.

Enrollment in BIO-SCI 5752 Research Methods in Oral Biology required

- As the student identifies a research focus for the dissertation project, they will begin reviewing the literature and relevant instrumentation in conjunction with a selected research adviser.

Seminar Series

- Graduate students are expected to attend the weekly Department of Oral Biology Seminar Series and the monthly Professional Development Seminar Series
Information available from Department of Oral Biology website at
http://dentistry.umkc.edu/oralbio/oralbiologyseminar.shtml
Information for the Professional Development Seminar Series:
http://dentistry.umkc.edu/oralbio/oralbioseminars2.shtml
Thesis and Dissertation Defense Exams
- Graduate students are expected to attend all thesis and dissertation defense exams

Other Discipline-Specific Special Requirements

Dissertation Research
In accordance with general Interdisciplinary Ph.D. program requirements, each student with oral biology as the primary discipline must submit a dissertation proposal, prepared in consultation with the student's supervisory committee, which describes an interdisciplinary program of original research on a significant problem in oral biology. The proposal will be reviewed by the student's Ph.D. supervisory committee. The student may be required to revise and resubmit the proposal to the supervisory committee. A copy of the accepted proposal will then be forwarded to the dean of the School of Graduate Studies.

The student must provide evidence that a substantial portion of the dissertation will be submitted for publication to refereed journals. Such proof may be in the form of a manuscript in preparation for submission or a submitted manuscript. The student must submit the complete dissertation, in electronic form, to his or her faculty adviser for review and preliminary approval at least eight weeks before the expected date of graduation.

Appeals
In the event of disputes or special requests concerning a student's Ph.D. program, written appeals or documentation must first be submitted to the student's supervisory committee. If a resolution of the problem cannot be affected at that level, the written appeals process must then progress through the following levels:

1. Doctoral studies committee of the Department of Oral Biology.
2. Interdisciplinary Ph.D. Executive Committee.
3. Dean, School of Graduate Studies.

Academic Retention
A 3.0 or better grade-point average is required of all work applicable to the Interdisciplinary Ph.D. program. A Ph.D. student with oral biology as a discipline is subject to termination from the Interdisciplinary Ph.D. program if: (1) his or her grade-point average falls below 3.0; (2) more than four hours of C (2.0) grades are received; or (3) any grade of D or F is received. A recommendation for termination from the program will be made by the student's supervisory committee to the Department of Oral Biology and forwarded to the Interdisciplinary Ph.D. executive committee and the dean of the School of Graduate Studies.

Comprehensive Examination Guidelines
A comprehensive examination will be administered to all students enrolled in the Interdisciplinary Ph.D. program whose subject emphasis area is oral biology. The examination
includes both written and oral components. Content of the comprehensive examination will be tailored to the student's field of research interest and prepared with input from all members of the student's supervisory committee.

**Oral Biology as a Co-discipline**

- The Plan of Study must include a minimum of 9 approved credit hours, exclusive of dissertation research hours, in the Oral Biology co-discipline area
- At least one member of the Department of Oral Biology doctoral faculty must serve on the dissertation committee
- The Department of Oral Biology Director of Graduate Research Programs will serve as the interim advisor to co-discipline Interdisciplinary Ph.D. students.

Students will select courses applicable to their program from the following list with guidance from the Department of Oral Biology Director of Graduate Research Programs.

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<td>Physiology of Oral Mineralized Tissues</td>
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<td>Special Topics in the Responsible Conduct of Research</td>
<td>3</td>
</tr>
</tbody>
</table>
Pharmaceutical Sciences
Discipline Coordinator Ashim Mitra, (816) 235-1615, mitraa@umkc.edu

Click here to see Pharmaceutical Sciences faculty who are members of the doctoral faculty.

Pharmaceutical Sciences is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
Due to course sequencing, new students will ordinarily be accepted only in the fall term. Applicants must hold a professional degree in pharmacy (Pharm.D. or B.S.) or a baccalaureate degree in a related field such as chemistry, biology or mathematics with an undergraduate GPA of at least 3.0 on a 4.0 scale. Students who hold a master's degree in an appropriate discipline may be admitted on satisfaction of the general requirements of the School of Graduate Studies.

Qualifying Requirements for Full Admission
Admission depends on agreement of a member of the doctoral faculty in the discipline to serve as research adviser. All students are admitted provisionally except those holding an M.S. in pharmaceutical sciences. Full admission will be granted on satisfactory completion of 16 credit hours of courses recommended by the provisional pharmaceutical sciences faculty adviser during the first calendar year on campus. Students seeking admission to the pharmaceutical sciences discipline of the Interdisciplinary Ph.D. program should have completed coursework in calculus, organic chemistry, physical chemistry, biochemistry, microbiology, human anatomy and physiology where appropriate to their interests. Graduate students will be given a placement examination administered by the primary discipline faculty in order to assess undergraduate preparation for graduate-level study. Deficiencies existing on admission must be discussed with the interim faculty adviser during the first two semesters of graduate work. Course equivalency is determined by the pharmaceutical-science discipline faculty on a case-by-case basis. Students are required to pass the discipline placement exams before appearing for the comprehensive exams administered by the supervisory committee.

On admission, all students are assigned interim faculty advisers as stated in the letter of admission. Graduate students must adhere to the guidelines as stated in the School of Pharmacy Graduate Programs section of this catalog pertaining to selection and changes of faculty advisers.

Suggested Compatible Co-disciplines
Pharmacology, chemistry, cell biology and biophysics, molecular biology and biochemistry and oral biology.
Core Program Requirements

Pharmaceutical Sciences as the Primary Discipline
The minimum graduate credit hours generally required for the Ph.D. degree with pharmaceutical sciences as a discipline are 40 in didactic coursework, credit for presentation of three seminars and 20 dissertation research credits. Specific courses in pharmaceutical science will be agreed upon in consultation with the primary discipline supervisory faculty. Students will take a minimum of five courses offered by the primary discipline unit. Attendance at all seminars in the primary discipline is required, except when there is a scheduling conflict or an excuse approved by the seminar chair.

Three credit hours of statistics, plus 15 credit hours in pharmaceutical science coursework and 22 credit hours in one or a combination of related co-disciplines are all required.

Other electives. A supervisory committee may require that additional coursework be taken to prepare the student in a specific research area.

Pharmaceutical Sciences as Co-discipline
The pharmaceutical sciences doctoral faculty member(s) of the supervisory committee will confer regarding the student's program of study and recommend appropriate courses offered by the co-discipline. Generally, courses in the co-discipline will constitute successful completion of at least 20 percent of the approved course of study. All students choosing pharmaceutical sciences as a co-discipline must complete at least three graduate-level courses in pharmaceutical sciences compatible with research objectives recommended by the supervisory committee.

Other Discipline-Specific Special Requirements

Requirements for Retention
Students who receive two C grades or one D grade in didactic courses are subject to dismissal from the program. A student who receives one F grade will not be retained. Students will not be allowed to attain more than one C grade in a co-discipline course.

Appeals
Appeals by graduate students on matters pertaining to research or studies in the discipline will be routed initially to the supervisory committee and managed according to the appropriate procedures established for the Division of Pharmaceutical Sciences, School of Pharmacy.

Comprehensive Examination Guidelines
Ph.D. students who choose pharmaceutical sciences as the primary discipline must successfully pass a qualifying examination given by the division prior to applying to take their written and oral comprehensive examinations. Once the qualifying examination has been successfully completed, the comprehensive examinations will be given after the student has completed the majority of didactic coursework requirements but not later than the end of the third year. The examinations will be administered by the student's supervisory committee. The comprehensive examinations (written and oral) must be passed before a doctoral student can be admitted to candidacy. Before the comprehensive examination can be taken, the student must submit and
have accepted a research proposal in a form satisfactory to the supervisory committee. The comprehensive examination will be administered by the student's supervisory committee and will consist of both written and oral components.
Pharmacology

**Discipline Coordinator** Dr. Anil Kumar, (816) 235-1792, kumaran@umkc.edu
Assistant
Yvonne McCommon, Pharmacology@umkc.edu

Click here to see Pharmacology faculty who are members of the Doctoral Faculty.

Pharmacology is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are *in addition* to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**

Due to course sequencing, new students will ordinarily be accepted only in the fall term. Applicants must hold a professional degree in pharmacy (Pharm.D. or B.S.) or a baccalaureate degree in biological, chemical science or health science. In special situations, baccalaureate degrees in other disciplines will be evaluated for possible admission. For graduates of foreign schools, the applicant must have completed a course of study at least the equivalent of a U.S. baccalaureate degree.

Prospective students must have an aggregate minimum grade-point average of 3.0 on a 4.0 scale for all college work taken prior to the bachelor's degree, or an aggregate GPA of at least 3.5 on all post-baccalaureate work to date (minimum of nine hours). For graduates of foreign schools, the applicant must have above-average grades in previous college study.

Prospective students must have a minimum aggregate GRE score of 295 for verbal and quantitative and 3.5 out of 6.0 for analytical writing.

For graduates of foreign schools, the applicant must have a minimum score of 550 on written or 213 computer-based or 80 on Internet-based TOEFL exam or alternatively, a minimum score of 6 on the IELTS.

**Qualifying Requirements for Full Admission**

Students seeking admission to the pharmacology discipline of the Interdisciplinary Ph.D. program should have completed coursework in organic chemistry I and II, biochemistry I and II, calculus, anatomy, microbiology, physiology I and II and a biostatistics course. Deficiencies existing on admission must be satisfied during the first two semesters of graduate work. In addition, during the first year of graduate study, provisional Ph.D. students with pharmacology as a discipline must complete the following courses with a grade of B or better: PHARM 5519 (four hours), PHARM 5520 (five hours) and PHARM 5615 (three hours) or their equivalents. Equivalency is determined by the pharmacology discipline faculty on a case-by-case basis.

**Suggested Compatible Co-disciplines**

Pharmaceutical sciences, cell biology and biophysics, chemistry, molecular biology and biochemistry or other related fields in health sciences that offer Ph.D. degrees.
Core Program Requirements  
Pharmacology as Primary Discipline
Specific course requirements will be determined by the student in consultation with the research adviser and the supervisory committee. Generally, 65 post-baccalaureate credit hours, including 20 hours of research and dissertation and 45 hours of coursework, are required for the Ph.D. degree. No more than 27 credit hours (60 percent) can be obtained from a single discipline (preferably in pharmacology). The remaining 18 credit hours (40 percent) can be obtained from one or more participating disciplines. No more than 25 percent of the coursework (~11 credits) from non-participating disciplines will be counted toward the Ph.D. degree. More co-disciplines will be required. As many as 15 credits may be allowed for courses taken in a master's degree program at another institution with the concurrence of the student's supervisory committee.

The total of 27 hours required for pharmacology as the primary discipline will be composed of PHARM 5519 (four credits), PHARM 5520 (five credits), PHARM 5615 (three credits), three hours of PHARM 5580C (pharmacology seminar) and 12 additional hours of advanced courses (5500-level or above) in pharmacology or toxicology as approved by the supervisory committee. In the remaining 18 hours, three credit hours of statistics (EDUC-R&P 5505), one credit hour of ethical research (SGS 5590A), plus 14 credit hours in one or a combination of co-disciplines, which may include cell biology and biophysics, chemistry, molecular biology and biochemistry, oral biology, pharmaceutical sciences or other pertinent areas as approved by the supervisory committee.

Other Electives
A supervisory committee may require that additional coursework be taken to prepare the student in a specific research area. This additional requirement may not exceed six credit hours, may be taken in any approved doctoral discipline and must be completed prior to the semester in which the dissertation defense occurs.

Pharmacology as Co-discipline
Students who apply for Pharmacology as a co-discipline should have completed coursework equivalent to Pharmacy Physiology I and II (LS-PHYS 399 and LS-PHYS 400) and Human Biochemistry I and II (LS-BIOC 365 and LS-BIOC 366), which are offered at UMKC. Deficiencies existing on admission must be satisfied during the first two semesters of graduate work. When pharmacology is chosen as the co-discipline, the minimum course requirements are completion of PHARM 5519 (four credits), PHARM 5520 (five credits) and one credit hour of seminar (PHARM 5580C), plus sufficient courses constituting the required percentage of their program of study, as approved by the supervisory committee. No C grade in any core course will be permitted. Students who receive more than one C grade on elective courses will be dropped from pharmacology as a co-discipline. Students must take and successfully pass a written and oral comprehensive examination administered by the supervisory committee members from the Division of Pharmacology. Co-discipline students should take the pharmacology comprehensive examination no later than one semester after completing their required co-discipline coursework.
Other Discipline-Specific Special Requirements

Additional Coursework
Students will be expected to complete at least three credit hours of statistics. Students are expected to take sufficient computer courses or training as to be proficient in word processing and the use of spread sheets and data bases.

Retention in Program
Graduate students are required to maintain a cumulative grade-point average of B (3.0 on a 4.0 scale). In any semester when the cumulative GPA falls below 3.0, the graduate student will automatically be placed on probation. The student is allowed one semester to return to good academic standing (cumulative GPA of 3.0). A graduate student should not let the cumulative GPA fall below 3.0 in two semesters throughout the entire program. Students who receive a grade of C in six credit hours or more, or who receive a grade lower than C, or one no-credit grade will be dismissed from the graduate school. Any C grade in courses offered by the pharmacology division should be repeated no more than once.

Appeals
For special requests or disputes concerning a student's Ph.D. program, written appeals with documentation must first be submitted to the student's supervisory committee. If a resolution of the problem cannot be obtained at the supervisory committee level, the written appeals process must then progress through the following levels:

1. Division Chair, pharmacology.
2. Graduate Programs Committee, School of Pharmacy.
3. Interdisciplinary Ph.D. Executive Committee.
4. Dean, School of Graduate Studies.

Comprehensive Examination Guidelines
The graduate school requires that a student demonstrate adequate intellectual mastery of the field of specialization and of appropriate co-discipline fields by passing a comprehensive doctoral qualifying examination before being admitted into candidacy for the Ph.D. degree. To satisfy this requirement the student must pass two parts of the comprehensive examination given by the supervisory committee within 6 months after full admission to the graduate study at UMKC.

The comprehensive examination must be taken before the beginning of the student's third year after admission to full-time graduate study at UMKC. The comprehensive examination consists of both written and oral components. The format of the comprehensive examination consists of the writing and oral defense of a research proposal in the style of an NIH grant. This topic of the proposal is in an area distinct from the student's intended dissertation project and approved by the committee in advance of the examination.

Written Examination
The written examination will consist of a National Institutes of Health (NIH) grant proposal including Specific Aims, Methods, and Research Design sections; budget pages are unnecessary. The content will integrate fundamental knowledge from both the primary discipline and co-
disciplines. The written proposal must be submitted to the supervisory committee at least two weeks in advance of the oral portion of the examination.

**Oral Examination**

The oral examination shall consist of the student's presentation of their grant to the supervisory committee in order that the committee can evaluate the student's critical thought process and the student's ability to develop and defend an original research proposal. The oral examination includes (1) questions covering the grant proposal prepared by the student for the written examination and (2) other related material in the student's area of specialization, including fundamental knowledge of the primary discipline and co-discipline(s).

On satisfactory completion of the written and oral portions of the comprehensive examination, the student becomes a candidate for the Ph.D. In the event a student does not pass the examination, one additional attempt may be made at a date no sooner than 12 weeks, and within one year, of the original attempt. A student who fails either the written or the oral examination a second time will be automatically dropped from the program.

A student must pass the doctoral comprehensive examination and advance to Ph.D. candidacy within four years from the beginning of doctoral coursework (within three years if entering with a master's degree in the same or closely related field). After the establishment of degree candidacy, a maximum of four years will be allowed for completion of degree requirements (three years for students with a master's degree). Failure to complete the work within the periods specified will necessitate re-evaluation of the entire program and may result in a notice of termination.
Physics

**Discipline Coordinator** Anthony Caruso, (816) 235-2505, carusoan@umkc.edu

Click here to see Physics faculty who are members of the doctoral faculty.

Physics is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are *in addition* to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**
For admission to the program, an applicant must meet both the Interdisciplinary Ph.D. and specific physics admission requirements. The doctoral studies committee of the Department of Physics will review applications and make admission recommendations to the Interdisciplinary Ph.D. Executive Committee. The basic criterion for admission is the likelihood that an applicant will be successful in the Interdisciplinary Ph.D. program, particularly in the research component of the program. All applicants must satisfy the doctoral studies committee that they meet this criterion through such evidence as transcripts, letters of recommendation, statements of purpose, GRE scores (general and subject), performance on the department written examination, etc. Furthermore, a member of the doctoral faculty must be willing to accept the applicant as a research student. International students are required to have a TOEFL score of at least 550 (213 CBT) for admission and 575 (230 CBT) to be eligible for a teaching assistantship.

**Qualifying Requirements for Full Admission**
In addition to the above requirements, applicants must meet the following minimum requirements for the appropriate category listed below to be considered for full admission with physics as a discipline. The doctoral studies committee may recommend provisional admission for those applicants who fail to meet these requirements.

Applicants for admission to the Interdisciplinary Ph.D. program electing physics as their primary discipline must have a bachelor's or master's degree in physics or the equivalent. Those applicants holding only a bachelor's degree will be expected to provide exceptionally strong evidence of their academic ability and research capability in physics.

Applicants for admission to the Interdisciplinary Ph.D. program electing physics as their co-discipline must hold at least a bachelor's degree in a compatible field. These applicants must have successfully completed coursework in physics beyond a first (general or engineering physics) introductory course and must have mathematical background sufficient for advanced coursework in physics.

**Suggested Compatible Co-disciplines**
Computer science, mathematics, chemistry, geosciences, electrical and computer engineering, telecommunication and computer networking, curriculum and instruction, and engineering
Core Program Requirements
The credit hour requirement for Ph.D. students with physics as a discipline will depend on the student's entering status and individual program.

Physics as a Primary Discipline
For Ph.D. students with physics as the primary discipline, the following are the core graduate-level courses:
- PHYSICS 5500 and PHYSICS 5501 Methods of Mathematical Physics I, II
- PHYSICS 5510 and PHYSICS 5511 Theoretical Mechanics I, II
- PHYSICS 5520 and PHYSICS 5521 Electromagnetic Theory I, II
- PHYSICS 5530 and PHYSICS 5531 Quantum Mechanics I, II
- PHYSICS 5540 Statistical Physics I
- PHYSICS 5550 Atomic and Molecular Structure
- PHYSICS 5630 Advanced Quantum Theory

Students with physics as their primary discipline must either complete these courses at UMKC or must have already completed equivalent coursework at approved institutions at the time of their admission to the Interdisciplinary Ph.D. program at UMKC.

Physics as a Co-discipline
Students are required to complete a minimum of three courses (9 credit hours) at the 300-level or above, from classes offered by the Department of Physics. At least three of these credit hours must be at the ‘5500+ level’. Labs, special topics and research courses do not satisfy any of the above requirements. Students who receive a grade of B- or less in two or more courses used to satisfy these requirements will be disqualified from using Physics as their co-discipline.

Other Discipline-Specific Special Requirements

Retention in Program
Ph.D. students with physics as their primary discipline must maintain a 3.25 grade-point average. Students with physics as a co-discipline must maintain a 3.0 GPA in physics courses. A student's failure to maintain the minimum GPA will result in a probationary status for the following semester. A failure to remove the GPA deficiency during the probationary semester will then result in the student's dismissal from the Interdisciplinary Ph.D. program.

Appeals
Exceptions to any of the discipline-specific regulations must be approved by the student's supervisory committee and by the physics doctoral studies committee. In the event of disputes or special requests concerning a student's Ph.D. program, written appeals and/or documentation must first be submitted to the student's supervisory committee. If a resolution of the problem cannot be affected at that level, the written appeals process must then progress through the following levels: (1) Doctoral studies committee of the Physics Department; (2) Interdisciplinary Ph.D. Executive Committee; (3) Dean of the School of Graduate Studies.
Comprehensive Examination Guidelines

Physics as Primary Unit

Departmental Written Examination
During April of each year, the Department of Physics will administer a written, multi-level examination of all active M.S.-level students in physics and Interdisciplinary Ph.D. students with physics as their primary discipline. The four-part examination will be given during four sessions of four hours each on consecutive Saturdays. Each part of the examination will contain questions at the advanced undergraduate and graduate levels. The following subject areas will be addressed by the four parts of the examination:

2. Electromagnetism and optics.
4. Thermodynamics, statistical mechanics and condensed matter physics.

Students may pass the written examination at the following ascending levels of achievement:

1. Master's degree passing - necessary for the M.S. degree.
2. Ph.D. qualifying - necessary for admission to or retention in the Interdisciplinary Ph.D. program.
3. Ph.D. comprehensive passing - necessary to advance to Ph.D. candidacy.

Students need only pass the written examination once at any given achievement level. But, all graduate students must attempt the exam every year until they pass it at the appropriate level, unless they are granted an exception via a petition to the physics doctoral studies committee. A maximum of two attempts at each level will be permitted, and any student who does not attempt the examination when required to do so will be deemed to have failed the examination. Students who are required to take this examination are encouraged to consult with the Department of Physics for detailed information concerning procedures and regulations for the examination.

Comprehensive Examination by Committee
The comprehensive examination administered by the student's supervisory committee can be taken only after the student has passed the departmental written examination at the Ph.D. comprehensive level. It may be oral, written or both and may include the student's dissertation proposal and associated background material.

Physics as a Co-discipline
The student's supervisory committee will determine the comprehensive examination for students with physics as a co-discipline.
Political Science

Discipline Coordinator Robert K. Evanson, (816) 235-5217, evansonr@umkc.edu

Click here to see Political Science faculty who are members of the doctoral faculty.

Note: The political science discipline is accepting applications for the co-discipline only.

Political Science is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
Political Science only accepts students as a co-discipline in the Interdisciplinary Ph.D. program. Applicants who designate political science as a co-discipline must have earned at least a 3.0 GPA on a 4.0 scale in 12 or more hours in political science or closely related courses or otherwise demonstrate sufficient background in the discipline. Applicants must also submit samples of written work, including a one- or two-page preliminary proposal for an interdisciplinary plan of study and fulfill other requirements for full admission as determined by the political science doctoral faculty.

The political science doctoral faculty will recommend to the dean of the School of Graduate Studies whether or not an applicant should be admitted. It should be understood that a student who satisfies the criteria of the School of Graduate Studies and the requirements of the Department of Political Science may or may not be granted full admission to the Ph.D. program. Availability of faculty and resources will be among the factors determining admission.

Qualifying Requirements for Full Admission
Applicants who designate political science as their coordinating-unit discipline and lack an M.A. in political science or a related field may be admitted provisionally pending completion of an M.A. in political science at UMKC. Applicants who have an M.A. in another field but lack adequate preparation in political science may be admitted provisionally pending completion of designated undergraduate courses in the discipline. For full admission, applicants must also present a master's thesis or its equivalent in graduate-level written work and demonstrate acceptable research skills.

Students who designate political science as a co-discipline but lack adequate preparation in political science may be admitted provisionally, pending completion of designated undergraduate courses in the discipline.

Suggested Compatible Co-disciplines
Economics, history, public affairs and administration, and educational leadership, policy and foundations.
Core Program Requirements
Students with political science as their primary discipline must take at least 12 hours in political science after the M.A., other than the dissertation. They also must take at least 12 hours in their co-discipline(s). If a co-discipline requires more than 12 hours, its requirement takes precedence. In general, students must take whatever specific courses are deemed necessary by their committees.

The amount of work required for the Ph.D. depends on the student's level of preparation. A student entering the Ph.D. program without an M.A. in political science may expect to do significantly more work than that required of a student with such a degree in hand. Students with political science as their co-discipline must take at least 12 hours in political science as designated by their committees.

Requirements for Comprehensive Examinations
These examinations are given twice a year. Further information is available from the department.
Public Affairs and Administration

Discipline Coordinator Nick Peroff, (816) 235-2341, peroffn@umkc.edu

Click here to see Public Affairs and Administration faculty who are members of the doctoral faculty.

Note: The public affairs and administration discipline is currently accepting applications for the co-discipline only.

Public Affairs and Administration is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements

The doctoral faculty committee in this discipline will consider applications for admission throughout the academic year. To have their credentials included in the review process, applicants should submit GRE scores and all other necessary supporting documentation. The public affairs and administration (PAA) discipline in the Interdisciplinary Ph.D. program is designed to prepare students for research careers in universities, public and nonprofit agencies, or for other roles in which research training is needed. Successful applicants must show evidence of a strong interest in and ability to successfully engage in research, and when appropriate, exhibit promise as skillful teachers. The PAA doctoral faculty supports the development of strong research capacities and requires all Ph.D. students to complete an empirical study for the dissertation. The faculty expects all Ph.D. students to be competent in quantitative research; however, the faculty does not regard quantitative analyses and advanced statistical techniques as the only acceptable form of research.

Applicants are expected to submit scores for the verbal and quantitative portions of the Graduate Record Examination (GRE). Applicants must also submit official transcripts of coursework from all colleges and universities attended. No specific grade-point averages (GPA) are required. Admission is based on an applicant's overall record of academic achievement and the doctoral faculty's judgment of the applicant's likelihood of successfully completing the Ph.D. We expect that those admitted will have scored well on the GRE and have high GPAs.

Applicants should pay particular attention to the narrative statement that accompanies their application. The PAA doctoral faculty gives substantial weight to this statement. It should provide a clear description of the applicant's intellectual interests, how those interests evolved and should describe the research direction(s) that the applicant intends to pursue. A good statement also discusses the fit between the applicant's interests and the resources available at UMKC (for example, it might identify faculty with whom the applicant hopes to work).

Narrative statements need not be limited to one page. Applicants should provide a writing sample (such as a master's thesis or a paper from a graduate seminar) that illustrates writing
skills and a potential for scholarly work. Applicants are also encouraged to seek letters of recommendation from people who can address their potential for engaging in scholarly research. The PAA doctoral faculty seeks to admit only students whose research interests fit the interests and capabilities of the doctoral faculty. We admit only students for whom a member of the doctoral faculty has agreed to serve as interim adviser, and after the student's plan of study is completed, that faculty member should also be willing to serve on the student's Interdisciplinary Ph.D. supervisory committee. This commitment from a member of the PAA doctoral faculty applies to all applicants seeking PAA as a co-discipline. We strongly recommend that applicants communicate with PAA doctoral faculty about their interests and attempt to secure commitments from faculty to serve as PAA co-discipline adviser or supervisory committee member. Since applicants are reviewed beginning in mid-March, applicants should contact faculty by e-mail, telephone or in person before that time.

**Suggested Compatible Co-disciplines**
Entrepreneurship and innovation, educational leadership, policy and foundations, curriculum and instruction, economics, history, political science.

**Core Program Requirements**
For those students with PAA as the co-discipline, the core requirements are 4 of the following courses:
- PUB-ADM 5525 Financial Accountability and Policy Development
- PUB-ADM 5526 The Politics of Administration
- PUB-ADM 5530 Public Management
- PUB-ADM 5544 Public Policy Evaluation and Analysis
- PUB-ADM 5548 Leadership for Public Service
- PUB-ADM 5510 Research Methods in Public Administration

Typically co-discipline students are expected to complete the above listed courses, plus two electives from the public administration curriculum. Any of the above courses, except PUB-ADM 5510, may be waived if a student has had substantially equivalent courses.

**Requirements for Comprehensive Examinations**
The comprehensive examination for each PAA co-discipline student is developed, administered and evaluated by the student's co-discipline faculty adviser and supervisory committee.
Religious Studies  
**Discipline Coordinator** Gary L. Ebersole, (816) 235-5704, ebersoleg@umkc.edu

Click here to see Religious Studies faculty who are members of the doctoral faculty.

Religious Studies is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are *in addition* to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**

Generally, students who select religious studies as a discipline must begin their work during the fall semester. Applications received by **February 1** will be eligible for fellowship and scholarship consideration. Applications received after that date will be considered on a rolling basis. Except in very special situations, applications that are incomplete as of April 1 will not be considered until the following year.

In addition to the general admission criteria required of all applicants, those who choose religious studies as their primary discipline must:

1. Possess a master's degree in religious studies or theology, or a master's degree in any of the disciplines of the humanities or social sciences (under certain conditions, a master of divinity degree is acceptable).
2. Have earned a grade-point average of 3.5 in graduate courses.

Students who choose religious studies as a co-discipline must meet the criteria for admission specified by the School of Graduate Studies and should have some academic experience in religious studies or career experience related to religion.

All applicants must submit:

1. One or more samples of written work.
2. A brief statement of academic and professional goals.
3. A one- or two-page proposal outlining an interdisciplinary plan of study that tentatively specifies a dissertation topic or area of specialization.

Applicants are advised that meeting the criteria of the School of Graduate Studies and the discipline does not automatically result in admission to the Interdisciplinary Ph.D. program. When making recommendations to the School of Graduate Studies, the discipline's faculty steering committee considers other factors as well, particularly the availability of faculty qualified to work in the applicant's area of interest and the existence locally of necessary archival and library facilities.
Provisional Admission
Applicants who do not meet the requirements specified above may be recommended for provisional admission by the religious studies faculty. An applicant admitted provisionally will receive notification of deficiencies and of the conditions which must be met before full admission will be granted.

Suggested Compatible Co-disciplines
Curriculum and instruction, English, history, art history, and political science.

Core Program Requirements
The total number of courses and credits on the plan of study will vary depending on the student's degree of preparation prior to admission. All students are urged to take coursework in comparative studies of religion, as well as in cognate fields.

The core program requirement for a student whose primary discipline is religious studies includes a minimum of 21 hours of coursework in religious studies, including the five core courses listed below, plus coursework in the student's co-discipline(s) [not to exceed 60 percent of the total coursework in Religious Studies on the plan of study], and at least 12 dissertation credits.

Core Courses:
- RELIG-ST 5510 - Religions of the World (three credit hours)
- RELIG-ST 5584RS - Sacred Narratives and Texts (three credit hours)
- RELIG-ST 5586RS - Methodological Approaches to the Study of Religion (three credit hours)
- RELIG-ST 5587RS - Contemporary Approaches to the Study of Religion (three credit hours)
- RELIG-ST 5680RS - Doctoral Colloquium (three credit hours)

The discipline's core requirement for a student whose co-discipline is religious studies includes four of the five courses listed above, plus other courses recommended by the religious studies member(s) of the student's supervisory committee.

Students who have taken any of the above required 5500-level core courses prior to admission may substitute other courses approved by their supervisory committee to satisfy the core course requirement. Graduate courses offered by other area institutions that have been approved by the student's supervisory committee may also be used to fulfill the core course requirements in religious studies.

Other Discipline-Specific Special Requirements
Foreign Language Requirement
All students with religious studies as either primary or co-discipline and whose dissertation requires work in foreign language sources must demonstrate the requisite language competency through a special examination approved by the student's supervisory committee or an alternative demonstration of competency. In addition, all Ph.D. students must demonstrate a reading ability in either French or German.
Requirements for Retention
A doctoral student with religious studies as a discipline must maintain a 3.0 (B) grade-point average in each semester of coursework taken. A student whose term GPA falls below 3.0, or whose work is deemed unsatisfactory by his or her supervisory committee, may be placed on probation for one semester. A person receiving an F grade in a class normally will not be retained in the doctoral program.

Requirements for Comprehensive Examinations
The student with religious studies as his or her primary discipline must take three comprehensive examinations in religious studies containing both a written and an oral component, plus an examination set by the co-discipline. The three religious studies examinations are: history and methods of the study of religion, comparative studies of religion, and special area. A student's special area may be defined by religious tradition (e.g., Christianity, Judaism, Buddhism) or by geographical area (e.g., American religious history, religions of Africa, Chinese religions). The content of the comprehensive examinations will be determined by the student's supervisory committee and will vary somewhat according to the religious studies component of the student's plan of study. Students will be provided with the requirements for the comprehensive examinations at the time of admission to the Ph.D. program. Students who have religious studies as the co-discipline will take two comprehensive examinations: History and Methods of the Study of Religion and Comparative Studies of Religion. Complete information on comprehensive exams, including previous exam questions, may be found on the Religious Studies web site.

Interdisciplinarity
Religious studies is an interdisciplinary, cross-cultural and comparative field of study. All students are expected to take coursework in a variety of traditional disciplines and to integrate the knowledge and methodological approaches used in these disciplines in their own research and writing during their graduate career and in the dissertation.
Social Science Consortium: Economics, Political Science and Sociology
Discipline Coordinator Doug Bowles, (816) 235-1394, bowlesdh@umkc.edu

Click here to see Social Science faculty who are members of the doctoral faculty.

Social Science Consortium is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

Note: The discipline-specific requirements listed here are in addition to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

Discipline-Specific Admission Requirements
The Social Science Consortium (SSC) is only available as a co-discipline option, not as a coordinating-unit discipline, and has no discipline-specific admission requirements. Recommendations for admission are made by a designated sub-committee of SSC doctoral faculty which reviews all applications. Newly admitted students are assigned an interim SSC faculty adviser, pending formation of their supervisory committee.

Suggested Compatible Primary Disciplines
Curriculum and instruction, economics, geosciences (with a geography focus), history, political science, public affairs and administration, and educational leadership, policy and foundations.

Core Program Requirements
The Social Science Consortium Program of Study requires 15 hours of dedicated coursework. The following three courses (9 hours) are required:

- SOC-SCI 5610 - Introduction to Interdisciplinary Social Science
- SOC-SCI 5621 - Consensus Social Theory
- SOC-SCI 5630 - Seminar in Research Methodology

One course (3 hours) in critical interdisciplinary social theory is required. Students may select one from among the following:

- SOC-SCI 5622 - Pragmatism and Evolutionary Social Theory
- SOC-SCI 5690A - Marxian Social Theory
- SOC-SCI 5690B - Post-Modern and Interpretive Social Theory
- SOC-SCI 5690C - Critical Realism

The final course (3 hours) is elective, but must be approved by the student's SSC program adviser. Disciplinary graduate-level courses are, in general, eligible as electives, and some are pre-approved:

- ECON 5688 - Colloquium on Political Economy
- POL-SCI 5680 - Traditions, Theories, and Trends in Political Science
- SOCIOL 5503 - Controversies in Contemporary Social Theory and Practice
The 3 hour elective can also be satisfied by taking an additional critical theory course (see listing above), or with 3 hours of Directed Readings (SOC-SCI 5690, or a disciplinary equivalent), subject to the adviser's approval.

Sequencing is a very important consideration in the program of study listed above, complicated by the constraint that most courses fulfilling the program are offered only in either fall or spring semesters. It is highly recommended that students with the SSC as their co-discipline take SOC-SCI 5610 (offered fall semesters only) as early as possible, preferably in the fall semester of the first year, followed by SOC-SCI 5621 (offered winter semesters only), and then by the preferred critical theory course(s).

SOC-SCI 5630 is designed to assist students with preparation of a defensible dissertation proposal, providing interdisciplinary integration of the SSC program of study with the student’s primary discipline. It is intended to be taken as the conclusion of both primary discipline and SSC program coursework.

**Requirements for Comprehensive Examinations**

In addition to the comprehensive examination requirements specified by the student’s supervisory committee in accordance with SGS guidelines, SSC students must pass a written qualifying exam administered and graded by the SSC faculty. Information on current qualifying exam requirements and procedures may be obtained from the SSC Director.
Telecommunication and Computer Networking  
**Discipline Coordinator** Deep Medhi, (816) 235-2006, dmedhi@umkc.edu

Click here to see Telecommunication and Computer Networking faculty who are members of the doctoral faculty.

Telecommunication and Computer Networking is a discipline in the Interdisciplinary Ph.D. Program administered by the School of Graduate Studies.

**Note:** The discipline-specific requirements listed here are *in addition* to the requirements listed in Interdisciplinary Ph.D. Application Procedure and Minimum Criteria for Admission and Minimum Interdisciplinary Ph.D. Academic Regulations and Degree Requirements.

**Discipline-Specific Admission Requirements**
A student who meets the minimum discipline requirements stated below will be considered for regular admission to the Ph.D. program. A student who does not meet some of the requirements but shows high potential for advanced-level work may be considered for provisional admission. Admission also depends on factors such as number of seats available, resources available in the area of student's interest, the quality of previous work, etc. A student not qualifying for admission to the Ph.D. program may be considered for admission to the M.S. computer science or electrical engineering program. Requirements for admission are similar whether the applicant is requesting telecommunication and computer networking as the primary discipline or co-discipline.

**Academic Preparation**
The applicant must have a bachelor's degree and/or a master's degree in computer science, computer engineering, electronics, communications engineering or any other field requiring substantial training in at least one of the above fields and in mathematics with a GPA of 3.5 or better on a 4.0 scale, cumulative as well as in the major field; and a GPA of 3.5 or better in all post-baccalaureate or post-master's degree work.

**Aptitude for Advanced Work**
The student must demonstrate an aptitude for advanced-level work through national/international standardized examinations such as the GRE. The expected performance level is the 85th percentile in the quantitative portion of the GRE examination.

**Proficiency in English**
The student must demonstrate his or her proficiency in oral and written communication in English through national/ international standardized English examinations such as TOEFL, verbal portion of the GRE, etc. The expected proficiency level is the 50th percentile in the verbal portion of the GRE or a TOEFL score of at least 550 on the paper-based test or 213 on the computer-based test. For tests taken after Sept. 26, 2005, the minimum required score is 80. UMKC students may also satisfy this requirement by obtaining an English Proficiency Certification from the English Department.
Note: As per University policy, all international students are tested for proficiency in English upon arrival on campus, irrespective of their scores in TOEFL or verbal portion of GRE, or any other test. A student's adviser may also require the student to take the above test, irrespective of the student's native language. As a result of this test, the student may be required to improve his or her oral and written communication in English before enrollment in the courses of the chosen disciplines.

Recommendations
The student must provide at least three recommendation letters from the professors from his or her previous institution(s). If the applicant has been out of school for several years, recommendation letters from his or her supervisors (technical) will be acceptable. However, even in this situation, a recommendation letter from his or her last academic institution is highly recommended. A recommendation from a faculty member in the Computer Science Electrical Engineering (CSEE) Department at UMKC must be provided if the student has taken courses from or worked with the CSEE faculty.

Statement of Goals and Objectives
The applicant must provide a 250- to 500-word essay on his or her goals and objectives of pursuing the Ph.D. in the chosen fields.

Admission at an Advanced Level
An applicant who has already completed significant graduate coursework (15 or more semester hours of the post-master's work or 30 or more hours of the post-bachelor's work) toward a Ph.D. at another institution must provide reasons for changing institutions. The applicant must also provide a letter of endorsement from a doctoral faculty member in telecommunication and computer networking indicating willingness to be the student's research adviser.

Alternate Admission Criteria
The applicant may have received a bachelor's degree or a master's degree in computer science, computer engineering, electrical engineering or electronics or any other related field with substantial training in mathematics. An applicant not meeting the minimum admission requirements, or not having sufficient academic preparation (stated below under prerequisite knowledge) for advanced work in the chosen discipline(s), may be considered for provisional admission by the CSEE Department’s Ph.D. committee if the committee sees high potential for advanced work from the rest of the applicant's credentials. Evidence of high potential might be pertinent work experience, published papers or extremely high achievement in related areas. In any case, the required GPA (or GPAs) must be at least 3.0 and the coursework deficiencies in software architecture must not be more than 18 semester hours. Applicants with an established research or publication record in a quantitative science are encouraged to apply to this discipline.

Qualifying Requirements for Full Admission
Prerequisite Knowledge
A Ph.D. student selecting telecommunication and computer networking as the primary discipline is expected to have the level of preparation represented by the following courses before
attempting advanced study. Every student must have coursework in mathematics at Math 250 or above level, and at least five of the following course sequences (or their equivalent):

- COMP-SCI 291 Discrete Structures II
- COMP-SCI 352 Data Structures and Algorithms
- E&C-ENGR 380 Signals and Systems
- COMP-SCI 394R Applied Probability
- COMP-SCI 420 Introductory Networking and Applications
- COMP-SCI 421 / E&C-ENGR 476 Foundations of Data Networks/Introduction To Wireless Communication Systems
- COMP-SCI 431 Introduction To Operating Systems
- E&C-ENGR 474 / COMP-SCI 411 Introduction To Communication Systems/Introduction To Telecommunications Systems
- COMP-SCI 481 / E&C-ENGR 426 Advanced Computer Architecture/Microcomputer Architecture and Interfacing

A Ph.D. student selecting telecommunication and computer networking as a co-discipline is required to have at least three of the CS/ECE courses listed above.

**Length of Time to Complete Qualifying Requirements**

When a student is admitted provisionally, the CSEE Ph.D. committee will specify, and the UMKC Interdisciplinary Executive Committee will confirm, the conditions and length of time available to satisfy conditions to achieve regular-admission status.

**Suggested Compatible Co-disciplines**

Computer Science, electrical and computer engineering, mathematics, physics, engineering (civil and mechanical focus), geosciences and economics. A co-discipline outside of this list may be considered only in exceptional cases.

**Core Program Requirements**

The amount of work required for the Ph.D. depends on the student's level of preparation. For example, a student entering the Ph.D. program after earning a bachelor's degree may expect to do significantly more work compared to a student who enters after earning a master's degree.

**Qualifying and Comprehensive Examination Guidelines**

The Qualifying Exam is a written test administered by the CSEE Department's Ph.D. committee. The test questions are from a set of fundamental courses spanning computer science, electrical and computer engineering, and telecommunication and computer networking. The Comprehensive Exam is administered by the doctoral committee of the candidate. A student can either take a written test or opt for an oral presentation covering both primary discipline and co-discipline areas. Discussion with and agreement from the student’s doctoral committee is required before choosing the best option.

The candidates should contact the CSEE Division office and the chair of their doctoral committee for more information.
**Telecommunication and Computer Networking as a Co-Discipline**
The student who chooses telecommunication and computer networking as a co-discipline may obtain information on qualifying and comprehensive exams requirements from the discipline coordinator.

**Financial Aid**
Various forms of financial aids (such as graduate research assistantships, graduate teaching assistantships, graduate fellowships) are available through the Computer Science and Electrical Engineering Department and the School of Graduate Studies. Contact the discipline coordinator for more information.
Law, School of

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http://www.umkc.edu/law/

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Associate Deans:
Jeffrey B. Berman
Jeffrey Thomas
Barbara Glesner Fines

This catalog covers the academic programs of the School of Law. Prospective students should be aware that the School reserves the right to make changes in admission requirements and other specifications in the catalog. All statements in this publication are announcements of present policies only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

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History
In 1895, three young lawyers with energy and vision, William P. Borland, Edward D. Ellison and Elmer N. Powell, founded the Kansas City School of Law with the active assistance of leading members of the bench and bar. Borland, the first dean of the school, was elected to Congress in 1910 and was succeeded by Ellison, who served as dean until the School of Law merged with the University of Kansas City in 1938. After affiliation with the University of Missouri System in 1963, the school assumed its present name as the University of Missouri-Kansas City School of Law.

Accreditation
The school is accredited by the American Bar Association and is a member of the Association of American Law Schools.

UMKC LAW SCHOOL POLICY ON STUDENT COMPLAINTS REGARDING ACCREDITATION STANDARDS

UMKC School of Law values student input regarding any aspect of the educational process and encourages students to raise concerns and suggestions at any time with the Dean or any Associate Dean. Students’ concerns with accreditation standards or any other matter may often be resolved quickly and directly without the need for formal complaint. If, however, a student believes that his or her concerns regarding the law school’s compliance with ABA accreditation standards has not been resolved or chooses to forgo informal complaint mechanisms, the following formal complaint procedure is available.
As an ABA-accredited law school, The University of Missouri-Kansas City is subject to the ABA Standards for Approval of Law schools. The Standards may be found at http://www.americanbar.org/groups/legal_education/resources/standards.html. Any student at the School of Law who wishes to bring a formal complaint to the Administration of the School of Law of a significant problem that directly implicates the School’s program of legal education and its compliance with the ABA Standards should take the following steps:

1. The student complaint should be submitted in writing to the Dean or any Associate Dean of the School.
2. The writing should describe in detail the behavior, program, or process complained of, and demonstrate how it implicates the School’s program of legal education and the School’s compliance with a particular identified ABA Standard.
3. The writing must provide both the name of the student submitting the complaint, the student’s official University of Missouri-Kansas City email address, telephone number, and a street address for further communication about the complaint.

**Procedures for Addressing Complaints Regarding Compliance with Accreditation Standards:**
The Dean to whom the complaint is submitted should acknowledge the complaint within ten business days of receipt of the written complaint or as soon as is reasonably possible under the circumstances. Acknowledgment may be made by email, U.S. mail, or by personal delivery.

Within one month of acknowledgment of the complaint or as soon as is reasonably possible under the circumstances, the Dean or the Dean’s designee shall either meet with the complaining student or respond to the substance of the complaint in writing. The student should either receive a substantive response to the complaint or information about what steps are being taken by the School to address the complaint or further investigate the complaint.

Appeals may be taken to the Dean of the School, or, if the Dean of the School has decided the merits of the complaint, to the Executive Committee of the School of Law.

Any decision made on appeal by the Dean or the Executive Committee shall be final.

A copy of the complaint and a summary of the process and resolution of the complaint shall be kept in the office of the Dean of the School of Law for a period of eight years.

**Academic and Professional Training at UMKC**
UMKC School of Law provides academic and professional training to students seeking careers in law. Our faculty are outstanding scholars who have extensive practice experience. Faculty at UMKC are actively engaged with students both inside and outside the classroom. Our classes are relatively small (by law school standards) and many of our substantive courses incorporate simulations and service learning opportunities. Our faculty and students are collegial and the school provides many opportunities for interaction and development of close personal relationships that will last throughout one's career. We like to think of ourselves as the urban, public law school with the small, liberal arts feel.
We are a law school that teaches students to become lawyers in the best tradition of the profession and introduces them to the opportunities and obligations of the legal profession and its role in the greater community. We appreciate the work of lawyers and their many contributions, which include educating people and institutions about their rights, helping to design prosperous business and community ventures, and working towards the effective and efficient resolution of disputes. We maintain a faculty devoted both to professional service and to advancing knowledge through the production of excellent academic scholarship.

UMKC School of Law is a community of scholars, with faculty and students working together to address the legal issues and problems confronting society today on the local, state, federal and international levels. Because we train many of the region's practitioners, business people, judges and politicians, we have a special responsibility to see that they are competent members of the bench and bar, advisers and administrators; technically proficient, professionally responsible, and knowledgeable about the range of social, political, and economic ideas that influence our society. In doing so, we are aware that our graduates must be comfortable in a variety of professional settings with people from a variety of experiences, from land-use planning meetings with the local town council to trade negotiations in Mexico City, from an opening statement in the county courthouse to an appellate argument before the United States Supreme Court. While the details of such settings change over time, we can prepare students for such varied work by concentrating always on the foundations of good lawyering: respect for people, respect for knowledge and ideas, and respect for justice.

As a Law School, we build on a strong tradition of advocacy, civic engagement and academic excellence - a program that has not only produced some of the region's best lawyers and judges, but one that has also trained a U.S. Supreme Court Justice (Charles Whittaker) and an American President (Harry Truman). We embrace and foster a collegial, collaborative model of professional education and maintain an intellectual and cultural environment that fosters broad thinking, local and global awareness and creative problem-solving.

Law Building

Nestled among giant oak trees on the corner of 52nd and Oak streets, in the center of Kansas City and at the center of the nation, is the home of the UMKC School of Law. Among the unique features of this building are office suites shared by faculty and students. The school continues to take great pride in its efforts to foster faculty-student interaction. One ongoing initiative involves assigning many second- and third-year students to offices located within suites that also house their professors' offices. This "intellectual migration" was designed to foster the exchange of ideas and more generally to promote collegiality between faculty and students. Additionally, lounges or conference rooms within the suites provide opportunities for both formal and informal meetings of students and faculty.

The school has more than 121,000 square feet of modern, usable space, including classrooms equipped with Internet-connected teaching workstations with audiovisual and video conferencing capabilities. The school has two courtrooms, the E.E. "Tom" Thompson Courtroom and the...
Arthur H. Stoup Courtroom. Both are equipped with audiovisual equipment used to augment the advocacy training program of the school. Auxiliary rooms allow for live trials and hearings of the many area courts and agencies in the courtrooms and a unique viewing theatre above the E.E. "Tom" Thompson Courtroom allows for real-time commentary on court proceedings. A spacious student commons area, including the Truman Terrace (a scenic outdoor courtyard filled with tables, benches and fountains) and a vending area, is located near classrooms. Offices for many student organizations are located near the student commons area as well.

**Wireless Technology Environment**

The School has installed technology in the building which provides freedom from wired connections--enabling students, staff and faculty to access e-mail and multiple databases on the Internet of use to lawyers and law students using personal computers with wireless capability from offices, classrooms, study areas, the suites and the Leon E. Bloch Law Library.
Leon E. Bloch Law Library

The Leon E. Bloch Law Library is not only a place to study, but a laboratory for students to master legal research skills, both in traditional print and electronic media. In fall 2011, a newly renovated library space opened. The space is designed to focus on first year legal research and writing and it provides a new collaborative technology learning lab to facilitate mastery of online legal research skills. In 2010, space in the first floor of the library was converted to provide three additional study rooms for students and a student lounge.

The library serves as a forum for self-directed learning; a place students take control of their educational experience through researching selected paper topics and their own law review notes.

The library contains holdings in major areas of legal scholarship and practice. It is home to rare, early seventeenth century editions of Sir Edward Coke's treatises and case reports. It also preserves the Charles D. Gould Jr. Collection, consisting of photographs and memorabilia from the Nuremberg trials. The collection focuses on trial advocacy, urban law, family law, small business entrepreneurship, and tax law. The library's foreign law holdings are targeted for expansion and access to historical materials have dramatically expanded. What is not held in print in the library, or in its many database services, is conveniently available through the library's online catalog request and delivery service. This service provides access to seventy Missouri libraries and about 18 million items. The service includes access to the holdings of the three other law school libraries in Missouri. Additional hard to locate items can usually be retrieved through other specialized interlibrary loan services. Besides its collections, the UMKC's law library is especially strong with respect to the expertise of its librarians, most of whom teach courses in legal research and have practiced law for many years or worked as paralegals.

Electronic Resources

Technology has reshaped legal publishing in ways that will forever alter how attorneys and judges approach their work. The information professionals of the Leon E. Bloch Law Library have embraced this transformation in a variety of ways. The new Courtney Turner Trust Collaborative Technology Classroom will allow for creative use of technology using laptops and cutting-edge software in both a classroom setting and for student group study. Stand-alone computers that allow access for research on the Internet, printing, and numerous database services are available as well. A fee is charged for some law student printing and for all other patron printing. The Library also provides a scanner and a dedicated workstation for the visually impaired. In addition, each law student receives a password free of charge for accessing law school and university databases from home or at other locations on campus. Wireless access to the Internet is provided to students throughout the law school and library. Perhaps, unique among law schools, the newly renovated lower level of the Library hosts a free laptop clinic, where law students can go with computer and technology problems, many of which can be fixed at the clinic. In Spring, 2012, the Library will install state of the art book scanners on all three library floors. The scanners will provide digitization workflow solutions for library business processes,
student needs, and other law school business processes. The scanners can create PDFs, OCR documents, as well as audio files for the visually impaired.

Study Spaces in Suites

The design for the school's modern building manifests a commitment to providing desirable spaces for study and interaction by students who live throughout the metropolitan area. Double- or single-occupancy offices are provided to most second-year students, research assistants and teaching assistants. Most third-year students are assigned carrels or space in Club 3L, a communal area for studying or lounging. Library study spaces, far in excess of the number of first-year students, also are available.

The second and third-year assigned spaces are located in suites that include faculty offices. Each suite is named after a distinguished former justice of the United States Supreme Court. This innovative building plan fosters student-faculty interaction, the exchange of ideas and general collegiality.

The School of Law in the Community

UMKC takes pride in being the urban law school in the University of Missouri system. From this unique vantage point, faculty and students actively lead and participate in professional activities with greater Kansas City bar associations, continuing legal education programs, lawyers, law firms and the judiciary located in both Kansas and Missouri. In addition, the community serves as an integral part of the School's educational program, with students providing legal services under the direction of faculty and supervising lawyers in clinical programs and externships. The Law School, student groups and individual faculty have won awards for this high degree of community service and engagement.

The School of Law community enjoys strong partnerships with many area causes and concerns. A variety of community-based projects, ranging from the rehabilitation of inner-city houses to tax preparation services, receive benefits from this involvement. Students work with faculty on research of value to the community and are often involved in drafting or commenting on pending legislation. The LawSchool houses and assists the Kansas City Youth Court, a diversion program from juvenile court, where high school students act as lawyers and judges. Faculty, students, staff and alumni volunteers also help introduce inner-city high school students to careers in law.

Graduates of the UMKC School of Law have important responsibilities in legal arenas throughout the city, state and country. From corporate counsel positions in more than 25 national companies to the library of the Supreme Court of the United States, Law School alumni provide distinguished service.

On a local level, the annual listing of "Outstanding Lawyers in the Kansas City Metropolitan Area" names more UMKC alumni than from any other school. In addition, only two women have served as president of the Kansas City Metropolitan Bar Association and only one African-American has served as president of the Missouri Bar; all are UMKC Law School alumni. A
majority of the active judges of both the U.S. District Court for the Western District of Missouri, the Missouri Court of Appeals (Western District) and the Sixteenth Judicial Circuit of Missouri are graduates of the School of Law. Moreover, the first African-American Chief Justice of the Missouri Supreme Court graduated from the school and one of the present sitting judges graduated from the school. Courts throughout the multi-county metropolitan area are populated with UMKC alumni.

The Law School is proud of the fine reputation of its alumni and the outstanding contributions they have made and continue to make in both the legal and non-legal communities.

The Law Foundation

The Law Foundation was incorporated in 1959 by outstanding alumni and leading citizens of Missouri, including Harry S. Truman, Charles E. Whittaker, H. Roe Bartle and other judges, lawyers, government officers and friends, to promote and advance the cause of legal education. The Law Foundation is a fiscally autonomous 501(c)(3) organization whose purpose is to raise money and steward endowed funds for the benefit of UMKC School of Law. Operating with its own board of trustees but working closely with the School of Law leadership to meet the long- and short-term financial needs of the school, the Law Foundation funds programs that are not met by other sources of revenue to the Law School. With the support of the Law Foundation, the school is able to sustain and cultivate diverse aspects of a superior education program.

The Law Foundation funds scholarships on an annual basis. In addition, it provides significant financial assistance for student competition participation; faculty development; library acquisitions and research materials; technology improvements; and the school's public communications program.

Over the years, the foundation and its many friends have successfully built an endowment of more than $5 million for the benefit of UMKC School of Law.
Nondiscrimination Policy

The Board of Curators of the University of Missouri and the University of Missouri-Kansas City are committed to the policy that there shall be no discrimination on the basis of race, color, creed, sex, sexual orientation, age, national origin, disability or Vietnam era veteran status. For additional information, see the Statement of Human Rights information included in the Introduction section of this catalog.

Disabled Student Services

The University of Missouri-Kansas City endeavors to make all activities, programs and services accessible to students with disabilities. A campus coordinator is available to assist students with a documented disability to arrange for reasonable accommodations concerning all aspects of campus life. It is important that students contact the coordinator at least six weeks prior to the beginning of classes to arrange appropriate documentation and reasonable accommodations in the classroom. For information call (816) 235-5696. Individuals with speech or hearing impairments may use Relay Missouri, 1-800-735-2966 (TT) or 1-800-735-2466 (voice).

Admission to the Bar

Graduation from law school does not guarantee admission to the bar. Each applicant should get information on the character and other qualifications for admission to the bar in the state in which the applicant intends to practice. Information regarding law student registration and bar admissions in Missouri and Kansas is made available to all first-year students.

Law Alumni Association

The UMKC Law Alumni Association, the primary friend-raising organization for the law school, was revitalized in 1992 as a division of the university-wide Alumni Association. It strengthens and extends the educational mission of the law school and its energies are devoted to bridging the passage between student and professional life, encouraging service and illustrating a commitment to a society based on law and justice. The Law Alumni Association sponsors events that facilitate student-faculty-alumni interaction. Annual activities include alumni recognition events; assistance in student recruitment, mentoring and advising; assisting with social and professional activities connected to local and state bar associations; support to student programs and activities.

Continuing Legal Education

To accomplish its mission of promoting the competency and skills of alumni, members of the bar at large and other professionals in support of the practice of law, the UMKC Law School Continuing Legal Education office produces approximately 50 domestic events which focus on a variety of practice areas. In addition to domestic programs, the office coordinates continuing education abroad programs to a variety of international destinations.

The CLE office also publishes practice manuals and other educational material in a variety of legal subjects.
UMKC law school students may attend most UMKC CLE-sponsored events free of charge and purchase CLE publications at cost. Attendance at these events exposes students to the practical aspects of law practice and provides meaningful opportunities for networking with potential employers.

The CLE office coordinates courses taught by volunteer adjunct professors and the Advanced Professional Studies program, which permits practicing attorneys and other professionals to take for-credit law school courses for non-degree credit. The CLE office administers cash prizes given exclusively to UMKC law school students by the Kansas City Estate Planning Prize Competition.

**Career Services**

The Law School Career Services Office (CSO) provides career planning, strategy counseling, and employment information to the student body and alumni. Law firms, government agencies, businesses, the judiciary, and other employers seeking law graduates for permanent and temporary positions may utilize CSO's resources to meet their hiring needs. CSO assists law students seeking internships, part-time or summer clerking opportunities. CSO maintains a library of employment materials for the use of law students and alumni. An on-campus interview program hosted in the spring and fall of each year facilitates the collection of application materials, resumes, coordination of interviews, and provides interview rooms to potential employers in order to recruit our students.

CSO provides individual career counseling to students and alumni, as well as advice and assistance in resume preparation and interviewing skills. Programming throughout the school year introduces students to a variety of career opportunities, teaches networking skills, and provides opportunities for mock interviews with practicing attorneys.

An annual public service interest week sponsored by CSO and the Public Interest Law Association provides students with information about volunteer service opportunities in the community and highlights career opportunities with public interest employers.

CSO participates with the Kansas City Metropolitan Bar Association in its Heartland Diversity Legal Job Fair as well as its 1L Summer Diversity Clerkship Program to promote law clerk opportunities for diverse students. CSO also provides counseling, in conjunction with the Entrepreneurial Lawyering Program, to students and graduates who choose to pursue employment in solo or small firms. CSO also assists the Solo and Small Firm Incubator that helps recent graduates start their law firms with affordable office space, guidance managing a legal practice, and attorney mentors. CSO coordinates the Pro Bono Public Service Program and assists with the Pro Bono Honors Program.

The University of Missouri-Kansas City School of Law (UMKC Law) is committed to its policy against discrimination. The military's hiring practices are inconsistent with the School's non-discrimination policy and the AALS bylaws. Because Congress enacted the Solomon Amendment, the Law School allows military recruitment on Campus. However, the Law School remains committed to the policy of non-discrimination.
Career Opportunities

UMKC Law graduates pursue a wide variety of job opportunities which utilize the Juris Doctor degree. The largest numbers of graduates join law firms, ranging in size from one to more than 500 attorneys. Some of these firms specialize in specific areas of law practice. Other firms offer a general practice that spans corporate, civil and criminal law. Some law graduates do not practice law in a traditional law firm setting, desiring instead to use their legal skills in the business world as executives, bankers, and tax experts. These graduates are recruited by corporations, accounting firms, title companies, banks and insurance companies among other entities. The legal departments of state and municipal government agencies also employ graduates, and prosecutors' offices, public defenders and legal service organizations recruit at the school. Branches of the United States military recruit lawyers for service in the Judge Advocate General's Corps, and federal government agencies, such as the Department of Labor and the Office for Civil Rights, hire graduates to staff their legal departments. Other graduates become law clerks for judges or administrators in law schools. Some become professors of law.
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Attendance

Preamble
All ABA-accredited law schools are required to abide by the Standards for Approval of Law Schools of the American Bar Association, including the rule that, "A law school shall require regular and punctual class attendance"*. This provision carries with it a clear, affirmative duty on the part of each institution:

- A law school shall demonstrate that it has adopted and enforces policies insuring that individual students satisfy the requirements of this Standard, including the implementation of policies relating to class scheduling, attendance and limitation on employment**.

Consistent with these directives, the UMKC School of Law faculty believes that dependability is an essential characteristic of a good lawyer. The Law School’s objective is not only to ensure academic success, of which attendance is a major component, but also the development of good professional habits.

Over the years the Law School faculty has experimented with different attendance policies and has found that, without such a policy, attendance becomes noticeably lax, which in turn can contribute to poor performance on the bar examination. Moreover, the faculty recognizes that sound academic reasons exist for adopting a uniform attendance policy that allows some classes to require even more stringent attendance requirements.

Finally, the faculty recognizes that, if it imposes a mandatory attendance policy on students, the faculty also needs to impose compulsory attendance-taking on itself, using a standardized system, to ensure uniformity, fairness and predictability in the implementation of its attendance policy.

* Standard 304(d), Standards for Approval of Law Schools of the American Bar Association.
** Interpretation 304-6, Standards for Approval of Law Schools of the American Bar Association.
Procedures

1. Every faculty member shall take attendance each day of class by distributing a sign-in sheet consisting of a current class roster, or a suitable alternative. If a sign-in sheet is used, each student in attendance must sign the roster next to his or her name. The faculty member or her administrative assistant shall deliver completed attendance sheets or the results of the suitable alternative method of taking attendance to the Director of Student Services promptly.

2. Each student shall be allowed absences up to, but not exceeding, two times the number of credit hours in a course. (For example, a student in a three-hour class that meets in two 75-minute sessions each week may miss a total of four such sessions. A student in a three-hour class that meets in three 50-minute sessions may miss a total of six such sessions.) In their discretion, faculty members may require fewer, but may not allow more, absences. If a faculty member intends to impose a more stringent attendance policy, he/she must notify students of the policy by announcement in class or in writing or by electronic posting during the first week of the semester.

3. Each absence exceeding the limitation imposed by paragraph 2, above, shall result in a one-step letter grade reduction for the course to be assessed by the Dean’s Office, e.g., from "B" to "B-" or from "A-" to "B+". (For example, a student who misses five classes in a three hour class that meets in two 75-minute sessions will be assessed a one-step grade penalty. If that student misses a sixth class, he or she will be assessed an additional one-step grade penalty.) A faculty member may in his or her discretion in consultation with the Associate Dean impose other academic requirements in lieu of the grade reduction.

4. Accumulated absences exceeding three times the number of credit hours in a course shall result in the student's administrative withdrawal from the course provided the student is in good standing at that time, i.e., provided the student has not earned the grade of "F" for work completed at the time of withdrawal. Students who are not in good standing will receive a grade of "WF" for the course.

5. Students may appeal a grade-assessment or involuntary course withdrawal to the Associate Dean in writing within one week of notification of the assessment/withdrawal.

6. This policy does not affect a faculty member's guidelines for the turning in of out-of-class assignments and papers. The individual faculty member, not the Dean's office, has the sole discretion to award late penalties for failing to turn in an assignment or paper on time or to excuse the late handing in of assignments and papers. For this reason, the Dean's office only oversees student absences from class.

7. Students and faculty will be responsible for monitoring their own compliance with this policy.

8. Falsification of attendance records constitutes a violation of the UMKC School of Law Honor Code.

Examinations and Grades

In most courses, the final grade is based on the student's achievement on an examination given at the end of the semester. Examinations are anonymous, and papers are identified solely by number. Each student is expected to take examinations at the scheduled times. For failure to do so, a grade of F is assigned.

Grading of student work is on a 4.0 system:
A+ = 4.3     A = 4.0     A- = 3.7
B+ = 3.3     B = 3.0     B- = 2.7
C+ = 2.3     C = 2.0     C- = 1.7
D+ = 1.3     D = 1.0     D- = 0.7
F  = 0

Some courses are graded on a pass/fail basis.

A student receiving a grade of F in a required course must repeat and pass the course. Grades of F remain on a student's transcript and count toward a student's grade-point average even if a course for which an F is given is repeated and passed.

The temporary grade of I (incomplete) is recorded when the student has not completed the work required for the course. It may only be entered with the written permission of the professor teaching the course. If the work is not completed and a permanent grade not submitted to the school's records office by the end of the following semester, the I grade will be replaced with a grade of F.

**Final Examination Rescheduling Policy**

A student may request that one or more final examinations be rescheduled under the following circumstances:

- Two final examinations in the same calendar day.
- An evening final examination followed by a morning final examination the next calendar day.
- Three final examinations on three consecutive days (in the first week of examinations only).
- Four final examinations in five days (in the first week of examinations only).
- An emergency warrants rescheduling (request must be documented).
The policy with respect to take-home final examinations is as follows:

- If the take-home final examination is "floating," (e.g. the student may choose when to take it within a defined timeframe) the student may not create a conflict by opting to take it during an interval conflicting with another final examination.
- A take-home final examination does not conflict with the preceding final examination(s) under the first or third rules above (two exams in the same calendar day or three exams on three consecutive days), if it may be checked out at least four hours after the prior examination is scheduled to conclude.
- A take-home final examination does not conflict with the preceding final examination(s) under the fourth rule above (four exams in five days), if it may be checked out on Friday, at least four hours after the prior final examination is scheduled to conclude.
- Perceived conflicts involving take-home final examinations of greater than 48 hours in length will be dealt with on a case-by-case basis.

Requests to reschedule a final examination should be directed to the School's Director of Student Support Services.

Once a conflict has been identified, the director will determine which final examination(s) to move, and to what day and time, in order to eliminate the conflict.

Requests to reschedule a final examination on short notice because of severe illness or an emergency must be documented, and will be considered on a case-by-case basis. All such requests must be presented to the Director of Student Support Services for the School of Law immediately (See Student Support Services (Law)).

The policy with respect to requests to reschedule based upon disability is as follows:

- All disability-based requests must be approved by the Assistant Director for Student Disability Services (See http://www.umkc.edu/disability and Non-Discrimination Policy, above).
- The Director of Student Support Services will reschedule a final examination because of disability only on request of the Assistant Director for Student Disability Services.

**Credit in Lieu of Grade Option**

After completion of the first year, a student may take one elective course ordinarily graded (except a 4-credit-hour class) on an ungraded basis. For a "pass" to be posted on the student's record, work done for the course must be equivalent to a grade of C- or better; otherwise, the actual grade received will be posted. The student must make this election before the beginning of the semester by completing and filing the appropriate form (available at the Law School) in person at Registration and Records (Administrative Center, Room 115, 5115 Oak).

**Latin Honors**

Three types of Latin honors are awarded to those UMKC School of Law graduates who have achieved academic distinction, they are:
- Summa Cum Laude ("with highest honor")
- Magna Cum Laude ("with great honor")
- Cum Laude ("with honor")

While the University’s degree regulations provide some restrictions on the number of graduates in each class that may receive Latin honors which may reduce the percentage of students graduating with Latin honors in each category, in general, Latin honors are awarded as follows:

1. Summa: A student with at least a 3.7 GPA who is also ranked in the top 5 percent of the graduating class.
2. Magna: A student with at least a 3.5 GPA who is also ranked in the top 10 percent of the graduating class.
3. Cum Laude: A student who is in the top 20 percent of the graduating class.

**Appeal of Grades**

Students are responsible for meeting the standards of academic performance established for each course in which they are enrolled. The establishment of the criteria for grades and the evaluation of student academic performance are the responsibilities of the professor.

The school's grade appeal procedure is available only for the review of allegedly capricious grading, and not for review of a professor's evaluation of a student's academic performance.

Capricious grading, for grade appeal purposes, consists only of any of the following:
- The assignment of a grade to a particular student on some basis other than the performance in the course.
- The assignment of a grade to a particular student by resort to more exacting or demanding standards than were applied to other students in the course.
- The assignment of a grade by a substantial departure from the professor's previously announced standards.

**Step 1:** The student should first discuss the course grade fully with the professor. This must be done within six weeks after the professor turns in the grade or the beginning of the succeeding regular academic semester, whichever is later.

**Step 2:** If the matter is not resolved through consultation with the professor, the student may appeal to the dean. This must be done within 10 days after notification of the decision of the professor. The appeal to the dean shall be in writing, and shall state which of the three charges of capricious grading is alleged to have been violated and shall specify such facts as are relied upon to support the charge.

**Step 3:** The dean shall review the appeal and, if found to be without merit, shall dismiss it. If it is determined that the appeal may have merit, the dean shall appoint an ad hoc faculty committee to review the record and provide advice on the matter. The grade in any course that is based on an anonymously-graded examination shall be presumed not to be capricious.

**Step 4:** If the dean believes a change in the grade to be warranted, he or she shall present a report to the faculty of the Law School in order that the faculty may act on the matter.
Step 5: If the student is dissatisfied with the action of the dean or the faculty, the student, within 10 calendar days of the decision of the dean, may appeal to the chancellor in accordance with the University of Missouri-Kansas City Procedure for the Appeal of Grades.

Withdrawal from Courses
A student enrolled in a course cannot unilaterally withdraw from it but must secure permission from the associate dean to do so, and must follow prescribed withdrawal procedures. A student who is not in good standing in the course at the time of withdrawal (has earned a grade of F at that point) will receive a grade of F for the course.

Scholastic Probation and Dismissal
A student who obtains a GPA below 1.8 in his/her first semester will be automatically dismissed from law school. Such student may apply for readmission in the summer of that academic year as under then existing standards and procedures for readmission, and may apply for admission, as a new student to the law school beginning no earlier than the following fall semester. Only under extraordinary circumstances beyond the student’s control will the Student Affairs Committee consider a student’s petition prior to that summer. If extraordinary circumstances exist, at least one faculty member of the committee and its chair must grant permission for early consideration.

A student will be placed on academic probation if his/her cumulative GOA falls below 2.0. Any student on probation will have one semester to raise the cumulative grade-point average to the required level (2.0) or be dismissed for academic deficiency. A student on academic probation may not work or engage in significant law school extracurricular activities.

Students readmitted to the School after dismissal on the grounds of academic deficiency will have one semester to raise the academic average to the required level, unless the faculty decides that a longer period is warranted.

If a probationary student successfully raises his or her average to the required level at the end of the probationary period and subsequently falls below 2.0 again, the student will be dismissed and a second probationary period will be granted only after a petition and favorable faculty action.

Readmissions Policy Guidelines

I. Readmissions Committee

The Faculty Readmissions Committee considers all petitions for readmission in the first instance. Petitioners are afforded the opportunity for a personal interview with the Readmissions Committee.

II. Criteria for Petitions for Readmission
A. No petition for readmission will be granted unless the petitioner establishes to the satisfaction of the Readmissions Committee in the first instance or the faculty upon appeal under III(B)(2)-(3) that:

(1) there is a substantial likelihood that the student will be able to make up his or her grade deficiency within an appropriate time and manner in accordance with a plan approved by the Readmissions Committee or the faculty, and

(2) the grade deficiency is substantially attributable to circumstances or events which do not reflect on the student's abilities to perform in law school and which do not reflect the absence of qualities which bear on the ability of a person to successfully deliver legal services.

Circumstances that may meet this test are:

(a) serious personal illness or other medical problems, or

(b) the occurrence of an event or series of events causing severe emotional stress (e.g., death of a family member, divorce or separation from a longstanding partner, assault), or

(c) documented disability that can be, but has not previously been, reasonably accommodated, or

(d) any other serious problem significantly affecting law school performance.

B. Any situation which the student feels contributed to his or her academic difficulties should be clearly stated in the petition for readmission and documented to the extent practicable. Remedies the student wishes to see taken should also be addressed in the petition. The petitioner must certify the truthfulness of all statements provided in the petition.

III. Decisions to Admit or Deny Readmission

A. Decisions to Admit

(1) If the decision of the Readmissions Committee is to readmit, that decision is final.

(2) Upon a decision to readmit, the Readmissions Committee or the faculty shall construct a plan and specify conditions for remedying the grade deficiency. Ordinarily, the student will be required to raise his or her cumulative grade point average to a 2.0 within one semester. In
appropriate cases, the Readmissions Committee or the faculty may specify additional conditions for remedying the grade deficiency.

B. Decisions to Deny

(1) If the decision of the Readmissions Committee is to deny readmission and that decision is unanimous, there is no appeal permitted, except as detailed in B(3) below.

(2) If the decision to deny readmission is not unanimous, the student has a right of appeal to the full faculty. [Automatic right to appeal]. If the faculty votes to deny readmission, that decision is final and no possibility of appeal within the LawSchool, campus, or university exists.

(3) If there is no entitlement to appeal in accordance with the above provisions, then the Dean or his or her designee may, in that person’s discretion but only in extraordinary circumstances, refer an appeal from a Readmissions Committee decision to the faculty. Such referral shall be accompanied by a written explanation for the granting of the appeal. [Discretionary appeal]. A student must request the Dean’s review within ten days of notification of the committee’s decision. If the Dean or his or her designee decides not to refer to the faculty, that decision is final.

IV. Notification of Decision of the Committee

A. After the Readmissions Committee deliberates, the petitioning student shall be notified either that

(1) the student is readmitted, or

(2) the student is denied readmission and the decision is final, but that the student may seek leave to appeal from the Dean upon a showing of extraordinary circumstances or

(3) the student is denied readmission but has the right to appeal to the faculty.

B. The full faculty shall constitute the appellate body for petitions after the fall semester. The executive committee of the faculty shall constitute the appellate body for petitions after the spring semester. Faculty may participate at their request in the faculty deliberations by teleconference.

V. Attendance in Classes Pending Petition

A. Initial Petition
Students may continue in their classes until either the dean makes a determination to deny referral to the faculty under III(B)(3) or the faculty makes a determination under III(B)(2)-(3). At that time, the student must cease attending classes if the decision is to deny readmission.

B. Subsequent Petitions

Students may not attend classes until the Readmissions Committee has made a decision to readmit under III(A) or the faculty has made a decision to readmit under III(B)(2)-(3).

C. Dismissal as a First Semester Student

Students dismissed from the Law School for achieving a grade point average under 1.8 after their first semester must cease attending classes immediately upon notification. The student may make their initial petition in the summer following their dismissal. These students do not have the right to enroll or continue in any classes during the pendency of their petition.

VI. Subsequent Petitions

A. Re-Petitions After Denial

A subsequent petition is a petition that has previously been denied. A subsequent petition may be considered by the Readmissions Committee only if it presents new evidence. New evidence is evidence not available or not reasonably discoverable with a prior petition. Subsequent petitions shall be determined by the same process and standard of review as petitions for readmission.

B. Petitions By Persons Who Have Previously Been Readmitted.

Only in exceptional circumstances will a student who has previously been readmitted and subsequently dismissed be readmitted again.

Dean's Honor List

The Dean's Honor List recognizes students who have demonstrated academic excellence in a semester. To be so recognized, a student must have achieved at least a 3.0 GPA for the semester, carrying a course load of at least 12 School of Law course credit hours; with at least three of those courses being graded courses; and not have any incomplete grades in graded courses that semester.

Acceleration

A full-time student must complete six semesters "in residence." For purposes of being considered “in residence”, two UMKC summer sessions may count together to form one semester in residence (except with respect to the School's summer abroad courses). Thus, students taking
five regular semesters and two summer sessions at the Law School having at least ten classroom credit hours may graduate in 2 1/2 years. A student desiring to attend a summer abroad program offered by another school should check with the Associate Dean for Students to see if the program may count as 1/2 of an in-residence semester.

**Employment by Juris Doctor Degree Candidates**

Full advantage of the opportunity for a sound legal education only can be gained by devotion of sufficient energy and attention to legal studies. The excessive diversion of time and energy to employment can seriously impair success in law school and preparation for law practice. For this reason, full-time first-year law students should not engage in any outside work, and upper-class students should not engage in excessive outside work.

Accreditation requirements mandate that a student may not be employed more than 20 hours per week in any week in which the student is enrolled in more than twelve class hours. The School has the obligation to adopt and enforce policies assuring that its students meet this requirement.

Students on academic probation may not work.

**Administrative Rules**

**School of Law Administrative Rules**

In the event of inclement weather and a determination by the University that classes are to be cancelled and/or closed, the University will provide for immediate distribution of information through UMKC Alert!, the University's mass notification system program, including: text messaging, personal and UMKC voice mail, personal and UMKC email, and pagers; mass email/voicemail notice to UMKC Everyone (faculty, staff & students); and postings on UMKC home page (UMKC.edu) and UMKCAAlert!(umkc.edu/umkcalert). The policy is contained in the UMKC Business Interruption Policy at http://www.umkc.edu/hr/master/BusinessInterruptionPolicy11-12.pdf. Faculty/staff and students can opt to have the emergency notification, which includes school closing and class cancellations sent by text or voice mail to their personal phones. The link to the emergency notification FAQ page is http://www.umkc.edu/umkcalert/umkcalert_faq.asp,

It is a violation of University regulations to use, sell, purchase or serve alcoholic beverages on University property unless specifically approved by the Vice Chancellor for Student Affairs and Enrollment Management.

Student groups desiring approval must request the approval at least two weeks prior to the date of the intended use. Request forms are available in the dean's office.

The parking lot and driveway on the north side of the law building are for faculty and staff parking. Violators deprive faculty and staff of parking spots they pay for and violators will be ticketed and their vehicles may be towed or locked by a "boot." Students must register their vehicles at UMKC Parking Operations and pay for a student parking permit. Student permits are valid only in student parking lots. After 4:15 p.m., student permit parking is allowed in most faculty/staff lots. Parking regulations are enforced Monday through Friday, 6 a.m.-10 p.m. throughout the year, including the time between semesters. The following links pertain to
Activities and Services
School of Law Activities and Services

Urban Mission
Professional and Social Activities
Scholarly Publications
Competitions
Fee Information
Financial Aid

Competitions
The School of Law has a comprehensive program of advocacy training that involves both intra-school competition and participation in external programs. The school has established a strong tradition of excellence in inter-school competition both at the regional and national levels. The program receives strong support from the School, alumni and friends, both financially and through assistance from leading members of the bar.

National Mock Trial Competitions
Students compete in intra-school competition to demonstrate their abilities in trial skills. Those achieving the best scores represent the school in regional and national mock trial competitions, including the National Trial Competition (coordinated by the American Bar Association's Section on Litigation and the Texas Young Lawyers Association) and the American Association for Justice Mock Trial Competition. Our trial team was the Regional winner for 2008 and advanced to Nationals in Texas.

National Moot Court Competitions
All students may participate in intra-school moot court competition. Additionally, students showing outstanding appellate advocacy abilities represent the school in annual regional and national moot court competitions, including the National Moot Court Competition, sponsored by the Association of the Bar of the City of New York. UMKC teams have been very successful in advancing into the elimination rounds at regional tournaments.

Outstanding student advocates also participate in a variety of other competitions, including the ABA National Appellate Advocacy Competition, the Frederick Douglass Moot Court Competition, the Judge Conrad B. Duberstein National Moot Court Competition (Bankruptcy Law), the Family Welfare and Adoption Law Competition and the Jessup International Law Moot Court Competition. Teams compete locally, nationally and internationally in these competitions.

Client Counseling and Negotiation Competitions
Each year the School selects teams to compete in the ABA Negotiation Competition and the National Client Counseling Competition. Selection is based on intra-school competitions open to all students. Our Negotiating Team has an outstanding record, having advanced to Nationals almost every year and finishing in the “final four” nationally four times in the past twenty years.

The Scott Welch Memorial Advocacy Fund
This fund was endowed by alumnus Lantz Welch in memory of his son, and by memorial contributions of friends of the family. The fund provides travel expenses and recognition for students representing the School of Law in national appellate advocacy and mock trial competitions.

The UMKC Law Foundation also provides significant support for internal competitions and travel to regional and national competitions.

Viewing Actual Court Proceedings
The E.E. "Tom" Thompson Courtroom, attached to the law building, is one of the premier teaching courtrooms in the country. It contains computer-controlled audiovisual equipment, together with a 70-seat sound-proof observation balcony, providing a full opportunity for teaching and team practice with the aid of audiovisual critique. A complement of ancillary rooms enables the courtroom to be used by state and federal trial and appellate courts, providing special learning experiences for students.

Scholarly Publications
The UMKC School of Law offers several opportunities for students to develop research, writing and editorial skills through journal participation.

Law Review
The UMKC Law Review is a scholarly legal publication, managed by the UMKC Law Review Editorial Board and edited by the board and staff. Law students are invited to become a member of the Law Review based on their scholastic performance and achievement in a writing competition, which occurs during the spring semester. Law Review membership is considered one of the highest Law School honors. The Law Review is responsible for publishing four issues a year. One issue of the Law Review each year contains a Law Stories section that publishes stories about personal experiences or lessons learned in legal practice, unique clients or enlightening client interactions, or illuminating episodes in legal education. The UMKCLaw Review is the only law review in the country with a section devoted to law and narrative. Each quarterly issue contains contemporary articles by leading authorities in the legal community, comprehensive comments on legal topics written by members of the editorial board and senior staff members and notes by staff members analyzing recent legal developments. By actively participating in the publication process, staff members greatly improve their writing, analytical and editing skills.

Urban Lawyer
The Urban Lawyer is a prestigious and widely-read journal covering the areas of urban and public law. It is published quarterly by the American Bar Association's Section on State and Local Government Law. The articles are collected, annotated and edited by student editors and
faculty members at the Law School. As a member of the staff, the student is provided with an opportunity to enhance research, writing, and analytical skills, and to gain a wide spectrum of knowledge of urban law. Selection for staff positions is by a writing competition at the beginning of the spring semester.

Journal of the American Academy of Matrimonial Lawyers
The American Academy of Matrimonial Lawyers has chosen the School to assume editorial responsibility for its twice-yearly publication. The journal uses a symposium style format with featured articles on a selected family-law theme and an annotated bibliography of articles related to the issue's theme. The journal is edited by a faculty member with student editorial assistance. Under the faculty member's supervision, students research and write papers on a topic designated for an upcoming issue and edit submitted lead articles. Papers submitted by students are considered for publication in the journal.

Professional and Social Activities
Student Organizations
At UMKC, the law school experience extends far beyond the classroom. We offer many ways for students to get involved through organizations matching a variety of interests within the law school and the larger university community. These organizations are listed at http://law.umkc.edu/current-students/student-organizations.asp.

Fee Information
Educational fees and student program/use fees are set by the University of Missouri Board of Curators. For the most current fee schedule, contact the Cashier's Office at (816) 235-1365 or visit their Web site at http://www.umkc.edu/adminfinance/finance/cashiers/.

Financial Aid
For information on financial aid, contact the UMKC Financial Aid and Scholarships Office at (816) 235-1154 or visit their Web site at http://www.sfa.umkc.edu.

Urban Mission
The following programs and activities are illustrative of the many ways in which the School of Law serves its urban mission.

Child and Family Services Clinic
The UMKC Child and Family Services Clinic provides legal services and representation in cases involving children under the jurisdiction of the juvenile division of the Jackson County Family court. The clinic students ordinarily represent those adults seeking to give these children a permanent, safe home: family members seeking permanent guardianship, a father seeking paternity, or an adoptive family. In some instances, the clinic students will represent juveniles themselves in delinquency cases or may act as guardians ad litem on behalf of children in a variety of cases. Working under the supervision of the clinical professor, law students investigate, research and advocate legal positions necessary to ensure safe, stable family structures for children.
**Inns of UMKC**
The Inns of UMKC are part of a two-tier approach by the School of Law to address our students’ need for additional advice and assistance from the faculty and members of the local bar and judiciary. The program stems from an understanding that students benefit from consultation regarding matters such as the stress of law school, professionalism, the challenges presented by a career in the practice of law, course selections, bar exam preparation, summer clerkships and post-graduation employment (including judicial clerkships). Each Inn is run independently through the collaboration of one prominent member of the local bar, one member of the local judiciary and two faculty members. The grouping of students in the Inns directly corresponds to the Introduction to Law workshops and faculty members also serve as the students’ advisers. The goal of the Inns of UMKC program is that these Inns will grow to serve a vital role in the education and training of future community lawyers and leaders, comparable to the roles played by the old English Inns of Court.

**Kansas City Metropolitan Bar Association**
The School of Law enjoys a close relationship with the Kansas City Metropolitan Bar Association. Each year, the Young Lawyers Section of the Association presents a number of educational programs of interest to law students, helping them bridge the gap between theory and practice. In addition, it hosts a beginning-of-the-year picnic at which students meet area lawyers and judges, and presents an end-of-the-year bar examination information session. As a result of such activities, UMKC law students have access to excellent programs, make important contacts and enjoy the collegiality of an association dedicated to the highest standards of professional integrity and skill.

**Kansas City Tax Clinic**
The Kansas City Tax Clinic is a project of the UMKC Graduate Tax Law Foundation, with support from the UMKC School of Law. Planning for the clinic, which is housed in the law building, started back in 1996, with many faculty, staff, alumni and tax practitioners making contributions and giving generously of their time and effort to make the Kansas City Tax Clinic a reality.

The Kansas City Tax Clinic began serving clients in the fall of 1999. UMKC School of Law students in the LL.M. in Taxation program, the combined J.D./LL.M. in Taxation program, or other students with the permission of the director of the tax program, represent clients of limited means in tax controversy matters under the supervision of the director and volunteer tax practitioners. The clinic has been awarded Internal Revenue Service grants to assist low-income taxpayers with appeals.

**Law Practice**
Pursuant to Missouri Supreme Court Rule 13, a student who has completed legal studies amounting to one-half of the credits required for graduation and who is in good standing and of good character, fitness and moral qualification to practice law may appear in courts or before administrative tribunals in Missouri on behalf of an indigent person, if accompanied by a supervising attorney. The student may perform other legal work, such as preparation of pleadings and briefs on behalf of an indigent, so long as the work is done under the guidance of an attorney. An eligible student also may appear in any matter on behalf of the state with the written approval of a supervising lawyer. Similar opportunities for student practice are available under
Kansas Supreme Court Rule 709. Additionally, similar skills experience is possible in the Federal Government.

**Midwestern Innocence Project**
The Midwestern Innocence Project provides pro bono investigative and legal assistance to prisoners with persuasive actual innocence claims. Students learn legal and investigative strategies through Wrongful Convictions and the Innocence Project Clinic. In Wrongful Convictions, students learn the causes of wrongful convictions and the ways to raise successful innocence claims in both state and federal courts. The Innocence Project Clinic provides students hands on work with cases receiving transcripts, state records, and case documents in addition to the briefs and opinion in the case. Students report on the likelihood that an inmate is innocent and the strategies available for pursuing the claim of innocence.

**Public Interest Litigation Clinic**
The PILC is an independent non-profit legal services organization that represents innocent prisoners and prisoners facing the death penalty across the United States. The Clinic’s cases include all stages of criminal litigation, including trial, appeal, post-conviction, habeas corpus, certiorari and executive clemency proceedings. The School's Death Penalty Clinic and the "Problems and Issues in the Death Penalty" course are taught in conjunction with the PILC, and the center's staff provides valuable opportunities for the students in those classes.

**UMKC Entrepreneurial Legal Services Clinic**
Initially funded by the Kauffman Center for Entrepreneurial Leadership, students participating in the UMKC Entrepreneurial Legal Services Clinic, working under the supervision of licensed attorneys, assist a wide variety of owners of new and existing small businesses who do not have, or cannot afford, the market price for professional assistance. Each Fall and Spring semester, up to 15 students who have taken certain courses (Business Organizations and Federal Taxation are required, and Business Planning or other business or tax law education or experience preferred) are selected for enrollment in the clinic.

The clinic is located in the UMKC Institute for Entrepreneurship & Innovation building, at 4747 Troost. Students gain "hands-on" practical experience, under the supervision of experienced faculty who are licensed attorneys, by creating clients' business entities (such as limited liability companies and corporations) and drafting documents such as operating and partnership agreements, employment contracts and non-competition contracts. Students may enroll in the clinic in the fall or spring semesters.
Juris Doctor Degree

- Admissions
  - Criteria for Admission
  - Admission Process
  - LSAT/LSDAS
  - Prerequisites
  - Matriculation Options: Full-Time and Part-Time Progress
  - Admission With Advanced Standing
  - Admission Without Undergraduate Degree

- Scholarships
  - Scholarships Based on Merit
  - Assistance to Students with Financial Need
  - Minority Nonresident Scholarships
  - Prizes and Awards
  - Law Book Publishers
  - Other
  - Research Assistantships

- Academic Support and Success

- Academic Rules and Regulations
  - Attendance
  - Examinations and Grades
  - Credit in Lieu of Grade Option
  - Appeal of Grades
  - Withdrawal from Courses
  - Scholastic Probation and Dismissal
  - Latin Honors
  - Dean's Honor List
  - Acceleration
  - Employment by Juris Doctor Degree Candidates

- Juris Doctor Degree Requirements
  - Student Learning Outcomes
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- Emphasis Areas
  - Business & Entrepreneurial Law
    - Emphasis Area Description
    - Emphasis Area Requirements
      - Admission Requirements
      - General Requirements
      - Curriculum Requirements
      - Graduation Requirements
  - Child and Family Law
    - Emphasis Area Description
    - Emphasis Area Requirements
      - Admission Requirements
      - General Requirements
Scholarships
Scholarships are awarded to students based on the following criteria. Selection for most scholarships is based solely on material in the student's admission file. Information on scholarships for which applicants may apply will be included in their admission materials or financial aid packet.

Scholarships Based on Merit

Elizabeth Montague Averill Scholarship

Family, friends and alumni established this fund to enhance diversity among the UMKC School of Law student body by providing a scholarship to an older-than-average student who is returning to school to obtain a law degree. Special consideration is given to single, custodial parents. The scholarship is renewable subject to successful academic performance. Selection is based on applications by incoming students.

Timothy L. Brake Scholarship

Of Counsel with the law firm of Davis, Bethune and Jones, Timothy Brake (Law 1973) is an accomplished plaintiff's attorney. He has established scholarships at his undergraduate institution as well as UMKC School of Law. Mr. Brake believes that giving back to the institutions that provide outstanding education is a responsibility of those who have achieved
success. Scholarships are awarded each year to outstanding law students. Scholarships may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

**Alan E. Brooks Family Scholarship**
Established in memoriam of Alan E. Brooks, a military combat and civilian industrial engineer who provided unwavering support to his non-traditional law student wife, Debbie Brooks class of 2001. To be awarded to a non-traditional law student. Financial and underrepresentation status may be considered.
Harry L. Browne Memorial Scholarship

Helen L. Browne established this scholarship in memory of her late husband, Harry L. Browne, who devoted his professional career to the practice of labor law and who was recognized nationally as a specialist in that field. The aim of the scholarship is to attract to the UMKC Law School an outstanding entering law student who has demonstrated academic merit and who may be expected to practice employment and labor law with distinction. The scholarship is offered once every three years and is renewed each year if the recipient's academic performance is satisfactory. Selection is based on applications by incoming students.

Judge David T. and Hope Cavanaugh Scholarship

Scholarships are awarded each year to students from a fund established by Hope Cavanaugh, widow of Judge David T. Cavanaugh. Judge Cavanaugh was a 1940 law alumnus and judge in Jackson County, Mo. Selection is based on admission files, as well as applications by current students.

Julian Klein Davidson Scholarship

One entering student is selected annually based on merit as the Davidson Scholar. The award was created by Mary Davidson Cohen to honor her father, a 1905 graduate of the Kansas City School of Law (a predecessor of the UMKC School of Law), who left an enduring legacy of inquiry, learning and education. It includes full-tuition, books, the UMKC bar preparation course and tuition to attend one of the School's summer abroad programs in Ireland or China. The award is renewable for Scholars who maintain a 3.0 cumulative grade point average.

Diversity Scholarships

Several honor scholarships are awarded each year to entering students who demonstrate merit, and who, based on background and experience, contribute to the diversity of the school. Funds are provided by the University and the scholarships are renewed annually if academic performance is satisfactory.

Mark A. Dover Memorial Scholarship

A scholarship for entering students was established by family and friends of Mark Dover, a 1992 graduate of the School of Law, who died after a courageous battle with cancer. Mark entered law school after several years working in the court system and had great intellectual curiosity and a love for the law. The recipient should demonstrate these qualities that distinguished Mark Dover as a lawyer as well as have financial need. Preference may be given to students pursuing law as a second career.

Professor Robert C. Downs Recruitment Scholarship

Scholarships are awarded to recruit highly qualified incoming law students who have demonstrated excellence in academics in undergraduate and graduate work, excelled on the
LSAT, and participated in community improvement activities. Selection is based solely on admission files. Professor Robert C. Downs Scholarship
One scholarship is awarded each year to a second-year student who demonstrates a commitment of service to the School of Law, the local bar and future generations of law students by virtue of being an active member of the School of Law community. Students who have earned at least 40 credit hours and not more than 65 credit hours, and who are in good academic standing at the time of application, may apply. Selection is based on applications by current students.

William P. Eckels Memorial Scholarship
Scholarships are awarded each year to outstanding entering law students from a fund established by Mr. and Mrs. Philip Eckels, John S. Eckels, Katherine Rehkopf and Elizabeth Emerson in memory of their son and brother. Scholarships may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

Judge Jack E. Gant Scholarship
The Honorable Jack E. Gant (Law 1954) served on the bench of the Jackson County (MO) Circuit Court for 21 years following a successful 10 year career in the Missouri General Assembly and many years in private practice. In establishing this scholarship, Judge Gant leaves a legacy for recipients to aspire to public service and pursuit of justice in the law. Scholarships are awarded each year to outstanding law students. Scholarships may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

Elizabeth Pope George Memorial Scholarship
In memory of Elizabeth Pope George, an alumna of the Class of 1924, a scholarship fund has been provided by her son and daughter. The fund awards one scholarship every three years to an outstanding female first-year student. The scholarship is renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.
Rollin C. Goodale Scholarship Fund

The Honorable Rollin C. Goodale (Law 1942) Scholarship Fund was established by Mr. Charles S. and Dorothy Goodale through a charitable remainder trust to memorialize Judge Goodale. Scholarships are awarded each year to outstanding law students and may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

The SFP and John Hardy Academic Achievement Scholarship

A scholarship created to honor the co-founder and executive vice president of Specialty Fertilizer Products’ (SFP), John Hardy, a 1982 alumnus of the School, on the occasion of the tenth anniversary of the founding of SFP. In light of Mr. Hardy’s outstanding career as an attorney, the award will be based primarily on scholastic merit and academic achievement. Recipients must be full-time students at the School. Preference will be given to incoming first-year students having a cumulative undergraduate GPA of at least 3.0, or UMKC law students having a cumulative law school GPA of 2.75 or more. Applicants are required to submit an essay of no more than 500 words explaining the value of education and his/her future contributions to society.

Rubey M. Hulen Memorial Honor Scholarships

Honor scholarships are awarded each year to outstanding entering law students from a fund provided by the will of Anna Hulen, widow of Rubey M. Hulen, a distinguished alumnus of the school. The scholarship is renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

The Kansas City Lesbian, Gay and Allied Lawyers (KC LEGAL) Scholarship

A scholarship program has been established at the School by The Kansas City Lesbian, Gay and Allied Lawyers (KC LEGAL) to provide financial support to a student at the School who plans to work in pursuit of equal treatment of and justice for the lesbian, gay, bisexual, and transgender (“LGBT”) community. Applicants should submit a statement explaining the work he/she plans to do in that regard.
Dean and Professor Emeritus Patrick D. Kelly Scholarship Award

As Dean of the Law School from 1966-1978, Pat Kelly recognized the importance of scholarships to recruit highly qualified students to UMKC School of Law. Accordingly, he established the scholarship fund during his tenure as Dean. Beginning in 2005, alumni and friends hold an annual poker tournament to benefit the scholarship fund. Scholarships are awarded each year to outstanding entering law students and may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

Law Foundation Scholarship

Honor scholarships are awarded each year to outstanding entering law students. The following funds, held by the Law Foundation, support these scholarships: the James A. Bayles Memorial Scholarship Fund, the James P. Kem Memorial Scholarship Fund and the Howard Allen Yost Memorial Fund. Selection is based solely on admission files.

Law Foundation/University Multicultural Scholarships

Each year, up to four partial or full fee-waiver scholarships, plus cash amounts, are awarded to entering law students who have demonstrated scholastic superiority and who, because of diverse backgrounds and achievements, broaden the educational experience of all students at the school. They are supported in part by the memorial funds listed above that were established from contributions given to the Law Foundation. Recipients receive the scholarships each year if academic performance is satisfactory. Selection is based solely on admission files.

Law School Class of 1980

This scholarship was created by the class of 1980 in honor of the 25th anniversary of their graduation. Financial need may be considered.

The Jack and Helyn Miller Scholars Program

The Miller Scholars Program was established to recognize students who, through academic achievements and demonstrated leadership, are likely to enhance the UMKC School of Law, the legal profession and the community. Miller Scholar awards are made on a merit basis, without regard to financial need, to first-year law students. The award covers full-tuition, books, the UMKC bar preparation course and tuition to attend one of the School's summer abroad programs in Ireland or China. Selection is based on an application and interview process.

Filbert Munoz Memorial Scholarship

A memorial fund was established by the family and friends of Filbert Munoz to provide scholarships to students (including entering students) who have a demonstrated record of ability, desire and interest in using their education to help members of the Hispanic community.

The Nailling Society/Richard L. Files Scholarship
Ms. Bobbi Lou Nailling served as Executive Director of the Kansas City Metropolitan Bar Association (KCMBA) for 24 years. Upon her retirement, the KCMBA raised money in her honor and established a foundation. Ms. Nailling requested that the fund create a scholarship in her name and that of her late husband, businessman Richard L. Files at UMKC School of Law. The scholarship will be awarded annually to an incoming 1L student who demonstrates interest and intent to practice in the area of public service and/or the administration of justice. The recipient will have an opportunity to be introduced at the annual KCMBA "Liberty and Justice" Gala. The award is not renewable. Recipients will be selected based on a completed application reviewed by a selection committee.

Nonresident Tuition Scholarships

A limited number of nonresident scholarships are awarded each year to entering first-year law students with outstanding credentials who are not Missouri residents and who have not otherwise qualified for in-state fees. (See Missouri Tax Scholarship.) This scholarship pays the nonresident portion (roughly half) of the student's fees. Students will be awarded this scholarship for their first year of law school and will be expected to qualify for Missouri residency their second and third years, although the scholarship may be extended upon a showing of special circumstances. Selection is based solely on admission files.

Catherine N. & Clinton T. (Duke) Paddock Fund

A fund established to provide scholarships for excellence at the School of Law. Selection is based solely on admission files.

David Wilbur Pansing Memorial Scholarship

An annual scholarship award recognizing a student who plans to use the legal education in government or political service. The scholarship may be, but is not automatically, renewed. The Pansing Scholarship was established in 1995 by Judge Jane Pansing Brown, Class of 1982, in honor of her father, a 1954 graduate of the Law School. Selection is based on applications by current students.

Polsinelli Shughart Scholarship

As a demonstration of their commitment to increasing diversity within the legal profession, the law firm of Polsinelli, Shalton, Flanigan and Suelthaus has committed to fund scholarships at each of the five law schools from which they recruit most heavily, UMKC School of Law being one. Scholarships are awarded each year to outstanding entering law students from underrepresented populations. Recipients have a unique opportunity to be involved with partners and associates at Polsinelli through firm events, educational programs and other offerings. Scholarships may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

Dean and Professor Emeritus Robert Popper Scholarship

Established in 2005 by friends and family of Dean and Professor Emeritus Robert Popper, this scholarship will be awarded to an entering law student at UMKC School of Law with
demonstrated interest in and commitment to civil liberties, a core principle of Dean and Professor Popper as a lawyer and teacher of law. The scholarship honors and recognizes the memory of Dean Popper, who was a proud civil libertarian, specializing in criminal law, criminal procedure and constitutional law, who had a strong love for and commitment to the UMKC School of Law. An application is required and the scholarship may be renewed provided the minimum GPA is maintained and a prescribed core of course work is successfully completed.

**Ruth and John Rhiner Scholarship Fund**

John Rhiner (Law 1937) was proud of his legal career and thought highly of the Kansas City Law School, the predecessor of UMKC School of Law. In his estate, Mr. Rhiner provided for a scholarship to be awarded to incoming law students at UMKC School of Law. Scholarships may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

**Omar E. Robinson Memorial Scholarships**

Honor scholarships are awarded each year to outstanding entering law students from a fund established by the will of Ida C. Robinson, widow of Omar E. Robinson. The scholarships are renewed each year if academic performance is satisfactory. Selection is based solely on admission files.
Joseph A. Sherman Memorial Scholarship Fund

A 1955 graduate of UMKC School of Law, Mr. Sherman was known as a "gentleman of the bar" among his peers. Upon his death in 1997, family, friends and colleagues established a scholarship fund in Mr. Sherman's memory. Mr. Sherman had been an active volunteer with the UMKC Law Foundation and this scholarship pays tribute to his years as a member of the bar and volunteer at his law school. Scholarships are awarded each year to outstanding law students. Scholarships may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files.

Edgar J. Snow Scholarship Fund

The Edgar J. Snow Scholarships are funded primarily through the generosity of Professor Patrick Randolph, the law firm of Husch Blackwell and alumni recipients of the Edgar J. Snow Scholarships. A scholarship is awarded each year to an outstanding entering international law student from China. Scholarships may be renewed each year if the recipient's academic performance is satisfactory. Selection is based solely on admission files and by the Dean, School of Law.

Trans World Airlines Inc. Scholarship

A scholarship is awarded each year to a student entering the second or third year of law school and who intends to pursue a career in natural resources or environmental law. Selection of the recipient, who must be a Missouri resident, is made according to procedures established by the deans of the two University of Missouri law schools. Selection is based on applications by current students.
Assistance to Students with Financial Need

There are various government loan programs administered by the UMKC Financial Aid and Scholarships Office. They include the Federal Stafford Subsidized and Unsubsidized Loan Programs, the Perkins Loan Program and the Access Loan Program. The office also administers a limited amount of scholarship funds in which law students may participate.

The following funds administered by the Law School and the Law Foundation provide assistance to students with financial need.

**Michael J. Albano Scholarship Fund**

The UMKC Alumni Association has provided an endowment honoring Michael J. Albano for need based scholarship awards to Missouri resident students in the School of Law. The recipient must be in the high need category for financial aid.

**The James A. Bayless Emergency Loan Fund**

A fund established to provide emergency short-term loans for law students.

**The Joseph S. Chartrand Memorial Fund**

This is a memorial fund established from contributions in memory of Joseph S. Chartrand, an alumnus who taught part-time at the University of Kansas City (UKC was the predecessor to UMKC). The Chartrand fund provides an annual amount to assist students in purchasing law books. Selection is based on applications by both incoming and current students.

**The Tiera Farrow Memorial Scholarship**

A memorial fund established by Tiera Farrow, a 1903 graduate of the Law School, provides a partial scholarship to a worthy woman law student in need of financial aid. Selection is based on applications by both incoming and current students.

**Max Foust Scholarship**

Established by colleagues of Max Foust, this scholarship is awarded to a law student with financial need. Preference is given to a student who has experience or skills which can be indicators of success in the area of trial advocacy. Selection is based on applications by both incoming and current students.

**Judge Fernando J. Gaitan Scholarship**

The Honorable Fernando J. Gaitan is the Chief Judge of the U.S. District Court, Western District of Missouri and a 1974 graduate of UMKC School of Law. The Scholarship was established in 2007 by The Honorable Ann Mesle (Law 1972) to assist the law school in its recruitment of a diverse student body. Judge Mesle chose to honor Judge Gaitan because he "has all of the attributes of leadership, character, integrity and judicial temperament that make him a person worthy of being a role model for aspiring attorneys." The scholarship may be renewed for
the recipient's three years of law school, providing academic performance is satisfactory. Selections are based on admission files.

**Suzanne Gilmore Memorial Scholarship**

Family, friends and classmates established this scholarship in memory of Suzanne Gilmore, an alumna of the class of 1991. The scholarship is awarded to an older-than-average law student who is a single custodial parent pursuing a law degree as a second degree. The scholarship is renewed each year if the recipient remains a single custodial parent and maintains satisfactory academic performance. Selection is based on applications by both incoming and current students.

**The Hispanic Bar Association of Greater Kansas City Scholarship Fund**

The Hispanic Bar association of Greater Kansas City has established a fund to provide scholarships to UMKC School of Law students of Hispanic descent with financial need.

**The Elmer B. Hodges Memorial Scholarship**

An endowment fund established in the memory of Elmer B. Hodges provides scholarships for second- and third-year law students in need of financial aid.

**Kavanaugh Family Trust**

The law firm of Kenner & Kavanaugh has provided funding to award a scholarship to one or more worthy law students with financial need.
C.R. Krimminger Scholarships

Established by a gift from C.R. (Law 1934) and Katheryn L. Krimminger, the C.R. Krimminger Scholarships are awarded each year to academically qualified students who demonstrate financial need. Scholarships may be renewed each year if the recipient's academic performance is satisfactory.

Lathrop & Gage Diversity Scholarship

The law firm of Lathrop & Gage has created an endowment for the Law School to fund a scholarship for an outstanding student with financial need whose presence in the school furthers the goal of diversity to which the Law School is committed. Selection is based solely on admission files.

Judge Gene R. Martin Scholarship Fund

The Honorable Gene R. Martin has established a fund to award scholarships to deserving law students based upon need.

John Sublett Logan Scholarship

This scholarship was established by the John Sublett Logan Foundation in memory of Mr. Logan. It is designed to assist students in their legal education who, it is believed, will succeed in the legal profession and will give of themselves and their talents to the community in which they live. Selection is based on applications by incoming students. Preference will be given to those applicants who are natives or permanent residents of the St. Joseph, Missouri area.

The Robert B. McCreight Loan Fund

A memorial fund established by bequest from the estate of Gevene S. McCreight in memory of her husband Robert B. McCreight (Class of 1932), who had a long and distinguished career as an officer and director of stockyard companies and as president of the American Stockyards Association.

The Thomas McMorris, Jr. Scholarship Fund

A scholarship fund for the recruitment of under-represented students enrolling full-time at the School has been established to honor the memory and promote the vision of Thomas McMorris, Jr., who was active in the civil rights’ movement and served as president of the local chapter of the NAACP. Mr. McMorris believed that for African-Americans to reach their potential and have a voice, they need to be represented where it matters—in the courtroom, boardroom and at every level of government. Applicants must have an undergraduate grade point average of 3.0 or higher and must demonstrate financial need. Selection is based solely on admission files.

Larence Schrader Scholarship
A fund was established by Diane King to endow a scholarship in her father's memory to assist a worthy student who cares about the law and has a need for financial assistance.

**Fred L. and Emma E. Wiese Scholarship**

Established in 2005 by their daughter, Sarah (Law 2001), this scholarship is given in memory of Mrs. Emma Wiese and in honor of Mr. Fred L. Wiese. Sarah credits her parents with encouraging her to pursue a legal career, especially her mother. The scholarship intent is to provide financial assistance to highly qualified women who wish to attend law school with primary consideration given to rural applicants (Beloit & Russell counties in Kansas), an undergraduate gpa of 3.75 or better, and demonstrated financial need. The award is renewable based on satisfactory grade point average.

**Minority Nonresident Scholarships**

**Chancellor's Nonresident Minority Scholarships**

The University awards nonresident fee scholarships to students who are members of historically under-represented minority groups (African-American, Hispanic and Native-American) who are newly admitted to the University. Students must identify themselves as members of these minority groups in the application for admission in order to obtain the scholarships.

**Prizes and Awards**

**Law School and Law Foundation**

**The Thomas E. Deacy Trial Lawyer Award**

Endowed in the memory of Thomas E. Deacy Sr., an eminent trial lawyer, by his wife and son, Mrs. Thomas E. Deacy and Thomas E. Deacy Jr., the Deacy Award is presented annually to a third-year law student who demonstrates trial skills and attributes possessed by Thomas E. Deacy Sr.

**The Jay B. and Frances Dillingham Public Service Award**

An annual cash award is given to a student for participation in, or the study of, public service. Preference is given to students with strong ties to Clay or Platte County, Missouri.

**Sanford B. Ladd Award**

This fund provides an annual cash prize to the student earning the highest grade in Real Estate Finance.

**Ralph S. Latshaw Award**

An annual award of law books is given to a graduating student who has excelled in criminal law.
Law Alumni Association Harry S. Truman Leadership Award

This prestigious award is given annually to a graduating third-year student who exemplifies commitment to the legal profession; service; and leadership standards as set by the Law School's most famous alumnus, Harry S. Truman. A cash award and plaque are presented.

Law Alumni Association Charles E. Whittaker Award

The Law Alumni Association's Whittaker Award recognizes the outstanding third-year student who has advanced the intellectual life of the Law School. Both a cash award and plaque are presented.

Mdivani Immigration Law Scholarship Award

Mira Mdivani (Law 1999), a nationally-recognized attorney in the practice of immigration law, established this scholarship in honor of her father, Archil Mdivani, in 2006. This scholarship is awarded each year to the winner of an essay contest.

Annette Moore Award

An annual cash prize provided by this fund is given to the student earning the highest grade in Commercial Transactions.

Outstanding Academic Achievement Award

This award provides a certificate to the member of the third-year class who has achieved the highest cumulative grade-point average during three years of study.

Marvin and Patricia Rich Corporate Law Prize

A merit-based annual award which recognizes second-year UMKC law students of superior character, academic achievement and potential who plan to pursue a corporate legal specialty after graduation.

The Candler S. Rogers Writing Award

This award was endowed in memory of Candler S. Rogers, a former UMKC law professor, by a close personal friend and colleague. It recognizes Professor Rogers' long tenure as faculty adviser to the Law Review and his distinguished achievement in legal writing. It is given annually to the student who submits the most outstanding work of legal writing to the UMKC Law Review.

The John L. Sheridan Appellate Advocacy Awards
The Sheridan Awards were endowed by Norman O. Sanders in memory of his law partner, John L. Sheridan, a distinguished alumnus of the Law School. They are presented annually to students who have shown outstanding achievement in the Ellison Appellate Moot Court Competition.

**Trial Practice Achievement Award**

Endowed by contributions from classmates in memory of Terry T. Thomas, a Law School graduate, this award provides an annual cash amount and certificate to the student who has made the most significant progress in trial advocacy.

**UMB Bank's Excellence in Estate Planning Award**

An annual award, consisting of both a cash prize and plaque, is presented to a graduating student who has demonstrated an outstanding aptitude for estate planning and achieved an overall excellent academic record.

**The UMKC Law Review Honor Award**

Endowed by attorney Wilbur L. Pollard, this award is presented annually to the student who has rendered the greatest service to the UMKC Law Review.

**Law Book Publishers**
**West Publishing Company**

Awards are provided annually to recognize outstanding scholastic achievement.

**Other**

**American Bankruptcy Institute Medal for Excellence in Bankruptcy Studies**

The American Bankruptcy Institute annually provides a medal to a UMKC graduating law student who has demonstrated excellence in the study of bankruptcy law.

**The Center for Computer-Assisted Legal Instruction (CALI) -Excellence for the Future Awards**

Awarded to the student who achieves the highest grade in each course.

**The Kansas City Estate Planning Symposium Prize**

The prize competition was established to encourage student participation and excellence in the study of estate planning at the UMKC School of Law. UMKC law students compete for two first place and two second place cash awards which recognize students of superior character, academic achievement, and potential who plan to pursue an estate planning practice.

**The National Association of Women Lawyers**
A one-year honorary membership in the association and a year's subscription to the NAWL Law Journal is awarded to an outstanding woman law graduate.
The Order of Barristers
Certificates are awarded annually by this national honorary society to 10 graduates who have excelled in moot court, mock trial and other advocacy programs.

Research Assistantships

A number of salaried positions as research or teaching assistants are available each year for second- and third-year students with superior academic records. Research assistant positions provide excellent training in legal research on important and interesting research projects being conducted by members of the law faculty. Students are selected to serve as teaching assistants for the Introduction to Law program, the Structured Study Group program and Academic Enrichment. These students work closely with program faculty to enhance first year student success.

Academic Support and Success

The School of Law is committed to its students' success. Although the study of law is a difficult and challenging endeavor, the school attempts to work with students to maximize their efforts and see them through the process successfully. Several programs contribute to this effort.

The Law School Strategies Program is a comprehensive program including academic skills lectures and courses, study group opportunities, and individualized assistance.

The Law School Strategies Program is available to all students. It is especially beneficial for those students who feel they need assistance in the transition to law study. The Law School Strategies Program is not remedial in nature. Rather, it is designed to maximize the potential of students who participate by teaching skills and strategies for success in law school.

The program begins with a brief summer program immediately before orientation. This is a limited enrollment program to give students a "jump-start" to their legal education. This program is followed up during the academic year with academic skills lectures and workshops focusing on learning styles, learning strategies, time management and development of skills necessary for law school success.

Two study group programs maximize student learning through peer teaching. In Structured Study Groups, first-year students have the opportunity to participate in guided study groups in one of their first-year courses. The groups are led by an upper-class student who has successfully completed that course. The student leader attends the class with the first-year students and conducts weekly small-group sessions in which the leader models successful learning strategies for that class. In Comprehensive Study Groups, first-year students can participate in guided study groups that focus on academic skills across the entire first-year curriculum. These year-long study group programs are open to all students. Many of the materials used in the Law School Strategies Program are available to students through the program's Web site at http://www.umkc.edu/law/enrichment.
Juris Doctor Degree Program

The school's juris doctor degree program is designed to prepare students for the general practice of law and for policy-forming functions in government, business and other organizations in society. Courses provide students with a basic knowledge of the principles and processes of the Anglo-American system of law and of the integration of law into other disciplines and institutions.

The curriculum and program recognize that in order to be of the utmost service to clients, the lawyer must "see life whole" and appreciate the relationships among legal, social and political aspects of human endeavor. They also recognize that the best interests of society require a lawyer to be a thinker and scholar as well as a skilled technician.

Both the curriculum and methods of instruction are designed to meet these objectives. Although the casebook method is the predominant form of classroom instruction in larger classes, the faculty also employ other approaches. Classes such as lawyering skills, negotiating mergers and acquisitions, mediation, and law practice management combine theory with opportunities to learn about lawyering first-hand. Many of the classes use documents and "real life" problems to demonstrate concepts studied in class. The curriculum also includes opportunities for research and writing, seminar discussions, clinical instruction and skills training.

Law students do not have a formal major, but have options for obtaining sequenced and advanced training in areas of interest to them, including:

- Advocacy and Litigation
- Business and Tax Law
- Commercial Law
- Estate Planning and Administration
- Criminal Law and Procedure
- Domestic Relations
- Labor and Employment
- International Law
- Property and Real Estate
- Civil Liberties and Civil Rights
- Environmental Law

In addition, through participation in the Inns of UMKC program (http://www1.law.umkc.edu/career/UMKC%20Inns/), externships, competitions, journals and student organizations, students are able to develop skills and contacts in specialized areas of the law.

Students may also elect to participate in one of the Law School’s newly adopted formal areas of emphasis within the Juris Doctor degree program:

- Business & Entrepreneurial Law
- Child & Family Law
- International, Comparative & Foreign Law
- Litigation
- Urban, Land Use and Environmental Law
Students interested in particular practice areas are guided by faculty members and practitioners in developing their programs. The school, in conjunction with the Student Bar Association and the Kansas City Metropolitan Bar Association, sponsors a course scheduling and registration convocation and advisement program each semester at which representatives of the various practice areas give advice and guidance to students. In addition, an Elective Course Information Handbook is prepared each semester prior to course pre-registration that provides additional details regarding course sequencing, prerequisites and relevance of courses to practice and the bar exam.

Business & Entrepreneurial Law Emphasis Area

Important Note:

Because the School is committed to keeping up with changes in the practice of law, the requirements for emphasis areas may change during the course of a student's enrollment at the School. The requirements at the time a student is granted admission into the emphasis area are the requirements that govern completion of the student's emphasis requirements. For possible revised requirements that will take effect with the next academic year, see http://www1.law.umkc.edu/Academic/Emphasis/BusinessEntrepEmphasis.pdf

The Emphasis in Business and Entrepreneurial Law

The Emphasis in Business and Entrepreneurial Law program is designed to provide within the J.D. degree a well-rounded course of study for students interested in an emphasis in business law and transactional practice. Reflecting the multidisciplinary nature of conducting business in compliance with a variety of modern laws and regulations, the required courses and electives for this program have been selected to expose students to a wide range of substantive law education and skills training opportunities. Thus, in addition to required and elective courses in pertinent areas of law, the curriculum requirements include a course with a practical skills component, as well as training in ethics and a research and writing project targeted at business and entrepreneurial law topics. Students who qualify for and successfully complete the credential requirements in the Business and Entrepreneurial Law program should thereby be in an excellent position to pursue and succeed in careers as advisors to entrepreneurs and to for-profit or not-for-profit businesses, whether in private practice or in company legal departments. This program would also be suitable for students destined for public sector careers, particularly in areas involving the regulation of businesses and business transactions.

Child and Family Law Emphasis Area

Important Note:

Because the School is committed to keeping up with changes in the practice of law, the requirements for emphasis areas may change during the course of a student's enrollment at the School. The requirements at the time a student is granted admission into the emphasis area are
the requirements that govern completion of the student's emphasis requirements. For possible revised requirements that will take effect with the next academic year, see http://www1.law.umkc.edu/Academic/Emphasis/famlaw.pdf.

UMKC School of Law Emphasis in Child and Family Law

The UMKC School of Law Emphasis in Child and Family Law prepares students to serve these pressing and unique legal needs. The program prepares students to serve the whole family -- from infants to elders -- and maintains a unique collaborative and interdisciplinary framework. The emphasis program requires that students master the basic doctrine and legal theories involved when the legal system interacts with families. In addition, however, students undertake study exposing them to the perspectives of other disciplines such as psychology and social work. Students study the unique ethical dilemmas of this area of law in specialized workshops and gain hands-on experience in representing children and families in the program's clinical components. Finally, all students in the emphasis complete an in-depth capstone research and writing project.

Students who qualify for and successfully complete the credential requirements in the Child and Family Law program should be in an excellent position to pursue and succeed in careers serving children, families, and elders, whether in private or government practice or in other leadership roles.

Litigation Emphasis Area

Important Note: Because the School is committed to keeping up with changes in the practice of law, the requirements for emphasis areas may change during the course of a student's enrollment at the School. The requirements at the time a student is granted admission into the emphasis area are the requirements that govern completion of the student's emphasis requirements. For possible revised requirements that will take effect with the next academic year, see http://www1.law.umkc.edu/Academic/Emphasis/LitigationEmphasis.pdf.

Emphasis in Litigation
UMKC’s long tradition of educating distinguished litigators is an important reason that many students choose UMKC for their legal education. To enhance that tradition, the law school has established within the J.D. degree an Emphasis in Litigation, a program designed to help outstanding students focus on those courses that will give them the skills and knowledge necessary to excel in the ever-changing world of twenty-first century litigation. In addition to taking a rigorous yet varied menu of required and elective courses, each student pursuing the Emphasis in Litigation works closely with an assigned faculty adviser and is provided with additional training in legal writing, litigation ethics, and legal research.

Urban, Land Use and Environmental Law Emphasis Area

Important Note:
Because the School is committed to keeping up with changes in the practice of law, the requirements for emphasis areas may change during the course of a student's enrollment at the School. The requirements at the time a student is granted admission into the emphasis area are the requirements that govern completion of the student's emphasis requirements. For possible
revised requirements that will take effect with the next academic year, see http://www1.law.umkc.edu/Academic/Emphasis/UrbanEmphasis.pdf.

**Emphasis in Urban and Land Use Law, Environmental Law**

UMKC students can engage in a course of study within the J.D. degree with an emphasis in Urban and Land Use Law, Environmental Law or both. This program builds on a tradition of excellence in urban and land use law at the law school and on the UMKC law faculty and students’ 35-year editorship of The Urban Lawyer, the national quarterly law journal of the American Bar Association Section of State and Local Government Law. Students in this specialized course of study will be able to choose from a variety of courses, seminars, internships, and externships in the law school and in other units and departments of the university including public administration, urban planning and architecture, geosciences, political science and economics. Students who choose to pursue this program will be prepared to enter the job market with specialized knowledge of the issues and law relevant to land use; real estate development; state, regional and local government and the environment.

**Admission to the Juris Doctor Program**

**Eligibility**

To be eligible to apply for admission to the School of Law's Juris Doctor degree program, a person must have either:

- A bachelor's degree based on a program of courses with substantial intellectual content (such as history, English, accounting, philosophy, calculus or chemistry) from an approved institution; or
- Completed at least 90 acceptable hours of credit in courses with substantial intellectual content in an approved institution, completed all non-elective coursework toward a bachelor's degree and made arrangements with the school that will award the degree to accept law school credits for the remainder of the work required to earn that degree, so that the student will earn the degree prior to the granting of the J.D. degree.

**Criteria for Admission**

The School of Law restricts the number of students admitted each year in order to maintain a favorable faculty-student ratio and to provide the best possible legal education for each student enrolled. Because many more people apply to the Law School than there are seats available, admission is competitive.

Students are drawn to the School of Law because of its intellectually stimulating academic environment, vibrant and diverse campus life and interaction with and in the surrounding community. In addition to being highly skilled and ethical attorneys, graduates are expected to leave UMKC able and committed to making a difference in their families, workplaces, communities, organizations and society at large. While substantial weight is given to each applicant's LSAT score and undergraduate GPA, the law school and its faculty also consider other factors in shaping an entering class. These factors, consistent with the University's values of diversity, inclusiveness and respect, include:
• Advanced or specialized educational achievement demonstrating potential for academic excellence in the study of law.
• Contributions to the cultural diversity of the School of Law.
• A history of overcoming challenges and barriers based on societal discrimination or economic disadvantage.
• Demonstrated leadership qualities.
• A significant and sustained commitment to public or community service.
• Other accomplishments or qualities that indicate the applicant will contribute to the School of Law's academic and service missions.
Admissions Process

Applicants are required to submit a completed, signed application form, the application fee, a personal statement and a resume. All undergraduate transcripts and two letters of recommendation must be sent to the Law School Data Assembly Service (LSDAS). Instructions for this service may be found in the LSDAS booklet. Once all materials have been submitted, a file is considered complete and ready for an admission decision to be made.

The law school makes admission decisions on a rolling admissions basis. That is, decisions are made as files are completed. This process begins in October of the year preceding the academic year applicants are applying for and continues until sufficient admissions are granted to fill the entering class. Accordingly, applications should be submitted as early as possible.

A nonrefundable application processing fee, in the form of a check or money order payable to the University of Missouri-Kansas City, must accompany the application. In addition, a seat reservation fee must be paid by April 1 or a designated period after admission, whichever is later. The fee is nonrefundable but will be credited toward first-semester fees. An additional nonrefundable seat reservation fee is due May 1. This fee will also be credited toward first-semester fees.

LSAT/LSDAS

In order to gain admission, an applicant must take the LSAT. The test may be taken at various locations, including UMKC. It normally should be taken no later than February for purposes of admission for the following fall. Information concerning the test is available online at http://www.lsac.org/ or by writing to the

Law School Admissions Council (LSAC)
Box 2000
Newtown, PA 18940-0998

Applicants also must arrange for evaluation of their college and university transcripts by the LSDAS. Further information and a registration form for this purpose may be obtained at the Web site and mailing address above. Once the student applies, the school will request a copy of the law school report from LSDAS. Please make sure the report is paid for so there is no delay in transmission.
Prerequisites

No undergraduate courses are specifically required for admission to the Law School. The best preparation is a broad liberal-arts education designed to provide an understanding of the institutions and values with which the law deals and the development of those skills and habits of thought essential to legal reasoning.

Any course of study leading to an undergraduate degree will be sufficient for admission, as long as the emphasis was an intellectually demanding one that challenged the student to employ critical-thinking skills and communicate effectively. Particularly helpful to law school study, however, are courses in history, as rules of law are best understood in terms of the historical milieu in which they were pronounced or enacted. Courses in political science and economics are beneficial, because lawyers must understand the institutions of government and the economic system with which they will be dealing. Courses in speech, logic, debate and the various language arts also are useful, because they expand and sharpen reasoning and communication skills. Courses with a strong emphasis on writing are particularly encouraged in light of the crucial role effective writing plays both in law school and law practice.

Matriculation Options: Full-Time and Part-Time Progress

Most students matriculate on a full-time basis. Some students, however, may do so on a part-time basis.

The ability to proceed part-time in the day program is designed for students who are unable to enroll on a full-time basis, e.g. disabled students, or those with family or career responsibilities. These students must enroll in 8 to 9 hours of classes each semester in the first year, and 8 to 12 hours per semester thereafter. In all other respects, students enrolled part-time are required to satisfy all graduation requirements applicable to full-time students, including the requirement that they complete all degree requirements within five years. Part-time day students develop programs with the associate dean that are designed to parallel, as much as possible, the sequence of courses for full-time students. Part-time student eligibility for Law Review, Urban Lawyer, honors and other activities will parallel, as much as possible, eligibility of full-time students.

A full-time student may not become a part-time student without permission of the associate dean. Part-time students may not become full-time students until they have completed all first-year courses, unless they obtain permission to proceed full-time from the associate dean. Once part-time students have completed all required first-year courses, they may enroll full-time or part-time for remaining coursework at their option. Students are cautioned, however, that enrollment in 13 or more hours triggers the rule limiting outside work to no more than 20 hours per week and full-time first-year law students should not engage in any outside work..
Admission with Advanced Standing

Except for transfer applicants enrolled at the University of Missouri-Columbia (to whom transfer is granted more liberally), an applicant for admission with advanced standing must meet the requirements applicable to entering students; be eligible to return as a student in good standing to their current law school; and present a letter from the Dean of their law school showing such eligibility. In order to be considered for admission, a transfer applicant who would not have been admissible (based on LSAT score, undergraduate GPA, etc.) had such applicant applied for initial admission at UMKC, must have at least a B average after at least one full year of law study in an approved law school. Otherwise, a transfer applicant must have at least a C+ average in all law work in order to receive consideration. Admission decisions on transfer applications typically are not made before mid-July, once the number of available seats in the second-year class have been determined.

A maximum of 30 semester hours credit may be allowed for work successfully completed at another law school, with the right being reserved to refuse to transfer credit, in whole or in part, for any such coursework.

Except in the case of students transferring from the University of Missouri-Columbia, hours for a course in which less than a C was earned will not transfer, but retaking the course may be waived on an individual basis. Grades earned at another law school are not transferred, nor do such grades count for class ranking purposes. Transfer students must earn at least a C+ average in courses taken at the UMKC School of Law in order to graduate.

Admission Without Undergraduate Degree

Students who have completed at least 90 acceptable hours of credit in courses with substantial intellectual content and have completed all non-elective coursework toward a bachelor's degree, may be admitted on the condition that the undergraduate degree be earned prior to or simultaneously with the granting of the J.D. degree. Usually this condition can only be met if the institution which will grant the undergraduate degree will accept credits earned in the UMKC Law School.

Since the UMKC Law School does not confer the undergraduate degree and assumes no responsibility in regard to it, it is the duty of the student to make certain that the requirements for the degree are satisfied. Questions concerning requirements for the undergraduate degree or of the transferability of law credits to complete the degree should be directed to the institution granting the undergraduate degree.

A letter from the institution confirming that it will accept credits earned in the UMKC Law School to complete the undergraduate degree must be submitted as part of the application for admission.

J.D. Degree Requirements
Graduates will be prepared for admission to the Bar and effective and responsible participation in the legal profession and in their communities.

Graduates will demonstrate effective problem-solving skills by:
- Critically examining complex facts.
- Identifying client needs and determining legal issues.
- Efficiently finding relevant law, policy and factual information.
- Applying appropriate legal rules and standards to the problem.
- Generating alternative solutions and developing plans for implementation.
- Continually reviewing and reassessing a plan of action.

Graduates will demonstrate effective communication skills by:
- Communicating appropriately and effectively with relevant audiences.
- Relating effectively to professionals from other disciplines.
- Listening actively.
- Writing and speaking clearly.
- Demonstrating cultural sensitivity.

Graduates will demonstrate entry-level competence in legal skills by:
- Identifying appropriate forums and means for resolution of legal problems.
- Being able to determine legal issues for analysis and research.
- Possessing elementary skills in interviewing, counseling and negotiation.
- Drafting documents to implement basic legal transactions.
- Dealing sensitively with people in conflict.

Graduates will demonstrate knowledge of the practice of law by:
- Being aware of career and job options in law practice.
- Having systemic knowledge of legal bibliography and resources.
- Possessing basic skills to enter practice as an associate.
- Having knowledge of basic techniques of law practice operation and management.

Graduates will demonstrate commitment to justice, competence and service to the profession and the community by being:
- Aware of the history and values of the legal profession.
- Committed to ethical practice.
- Aware of the rules governing the profession.
- Able to critically assess laws and rules and propose alternatives.
- Committed to lifelong learning and self-development.
- Appreciative of the value of ideological and cultural diversity.

First Year Required Courses
All students must complete the following required courses during the first year:

**Full-Time Progress**
*Fall Semester* (15 credit hours)
- LAW 8501 Contracts I (3)
- LAW 8634 Criminal Law (3)
- LAW 8531 Introduction to Law and Lawyering Processes I* (3)
- LAW 8541 Property I (3)
- LAW 8511 Torts (3)
Spring Semester (15 credit hours)
- LAW 8521 Civil Procedure I (3)
- LAW 8631 Constitutional Law (4)
- LAW 8502 Contracts II (3)
- LAW 8532 Introduction to Law and Lawyering Processes II* (2)
- LAW 8542 Property II (3)

Part-time Progress
Students enrolled on a part-time basis must take three of the required courses, including Introduction to Law and Lawyering Processes, in their first year. The remaining courses must be completed in their second year of study.
* Introduction to Law and Lawyering Processes I and II: These two first-year courses introduce students to legal reasoning; analytical and critical thinking; case research and analysis; legal writing, including office memoranda, briefs and letters to and on behalf of clients; advocacy; and all forms of legal research. They offer education in many of the fundamental skills and processes of legal practice through a combination of lecture classes and small group sessions. They are required of all first-year law students in order to supply a strong foundation of thinking, research and writing skills upon which all later, advanced courses will depend. In the second semester, some students may be assigned to, and others may have the option to elect, analytical sections of Introduction to Law (Intro Plus) to obtain more intensive instruction and practice in legal analysis and problem-solving.

Other Required Courses
Students must complete the following courses as a condition of graduation:

Required to be Taken During the Summer Preceding or Fall of Second Year:
- LAW 8601 Business Organizations (4)
- LAW 8552 Federal Taxation (3)
- LAW 8522 Civil Procedure II (2)

Required to be Taken During the Summer Preceding or Spring of Second Year:
- Evidence (3)

Required to be Taken During the Second or Third Year:
- LAW 8635 Criminal Procedure I (3)
- LAW 8721 Commercial Transactions, LAW 8721, Sales and Leasing or LAW 8720 Secured Transactions (3)

Note: This is no longer a requirement effective for the 2010 entering class.
A course that fulfills the school's jurisprudential requirement.  

Professional Skills Requirement. A student must meet the school's professional skills requirement. It may be met in one of the following ways:

1. Completion of one credit hour of professional skills education. This requirement may be completed by successfully completing one or more courses designated as meeting all or a portion of the professional skills education requirement.

2. Completion of a one credit hour independent study providing professional skills education, which independent study is certified to the School's Records Office as meeting the one credit hour professional skills education requirement.

3. Participation in law school programs that, even if not for credit, provide professional skills education (this would primarily consist of the various advocacy, counseling and negotiation competitions which do not provide course credit.

Required to be Taken at any Time Prior to Graduation and May be Taken During the Second Semester of the First Year:

A course that fulfills the school's advanced torts requirement

The requirements for the J.D. degree:

1. Completion of 91 credit hours, 80 of which must be classroom credits.

2. A cumulative GPA of at least 2.0 (see Administrative Rules and Regulations, Scholastic Probation and Dismissal, in this section).

3. Six semesters in residence carrying not less than 10 classroom credit hours each semester.

Acceleration. For purposes of being considered “in residence”, two UMKC summer sessions may count together to form one semester in residence (except with respect to the School's summer abroad courses). Thus, students taking five regular semesters and two summer sessions at the Law School having at least ten classroom credit hours may graduate in 2 1/2 years. A student desiring to attend a summer abroad program offered by another school should check with the Associate Dean for Students to see if the program may count as 1/2 of an in-residence semester.

4. Completion of all required courses (see Required Courses in this section).
5. Fulfilling the school's research and writing requirement. This requires students to have a rigorous writing experience evidencing legal analysis resulting in a paper of professional quality.

6. Fulfilling the school's professional skills requirement.

7. Regular and punctual class attendance.

8. Successful completion of all coursework within five years from the day students began their course of studies leading toward the degree. A student will not be allowed to enroll in any course after the five-year period.

Litigation Emphasis Area Requirements

Selection of Students for Admission to the Emphasis in Litigation

- Deadline for admission to the Emphasis in Litigation program: Students should apply not later than their fifth semester of law school. An application form will be available and must be submitted by the deadline for applications set by the litigation concentration advisors committee and circulated to the student body. Decisions as to whether a student will be admitted to the Emphasis in Litigation will be made in the semester in which the student applies.

- Procedure and Criteria for Selection:
  - The maximum number of students who will be permitted to enter the litigation program each year will be set by the litigation advisory committee taking into account the ability of the advisors to provide adequate supervision and advising. Each litigation adviser may set a maximum number of students that he or she will advise.
  - The litigation advisory committee will select the students to be admitted to the program. Criteria to be considered may include previous general academic performance in law school, previous academic performance in courses seen as particularly relevant to litigation, level of interest in litigation, and ability to identify an adviser willing to advise and supervise the student.
  - No student shall be admitted to the Litigation program unless he or she has a grade-point average of 2.7 or above in all law school classes previously taken.

- Part-time Students and Other Students with Unusual Schedules: The litigation advisory committee is authorized to make appropriate adjustments in the deadlines for part-time students or other students whose schedules do not substantially conform to the six semester paradigm.

Minimum Total Hours Required

1. A student must take a total of at least 26 hours in approved courses. Approved courses are those listed as "Required Courses," "Grouped Required Courses" and "Elective Courses".
2. No more than three hours of required upper-level courses, (including those used by the student to satisfy the UCC or Jurisprudence requirement) may count toward the required 26 hours.
3. A course (including Law 746) used to satisfy the student's writing requirement (see below) may be counted toward the total hours requirement even if it is also used to satisfy the student's Research and Writing Requirement.

Writing Requirement
1. Each student in the program must complete a written project, approved by an emphasis area supervisor, on a topic dealing directly with litigation.
2. The written project must be of a scope and quality that would satisfy the law school's research and writing requirement for a J.D. degree.
3. The written project may satisfy both the program's requirement and the J.D. requirement.

Practical Skills Component
All students in the program must take at least two of the following courses:

- Advanced Legal Writing: Litigation Drafting
- Appellate Advocacy II
- Appellate Advocacy III
- Appellate Advocacy IV
- Trial Advocacy I
- Trial Advocacy II
- Trial Advocacy III

Ethics Component
1. Each student in the program must participate in at least one, half-day, non-credit workshop on ethical issues for litigators.
2. Workshops will be organized by the program advisers and conducted by faculty, practicing lawyers, or judges.
Research Component

1. Each student in the program must participate in at least one, half-day, non-credit workshop on research materials and sources frequently consulted by litigators on issues directly related to the litigation process.
2. Workshops will be organized by the program advisers and the librarians. They will be conducted by faculty, librarians, practicing lawyers or judges.

Supervising and Advising Component

1. Each student in the program will be assigned an emphasis area adviser.
2. Each student in the program must meet with his or her adviser not less than twice a semester.

Distribution of Courses

A. Required Courses: All students in the program must take each of the following courses:
   - Civil Procedure I
   - Civil Procedure II
   - Criminal Procedure I
   - Evidence

B. Grouped Required Courses: All students in the program must also satisfy the Core Course Requirement, the Advanced Course Requirement, and the Skills Requirement set forth below:

1. Core Course Requirement: All students in the program must take at least two of the following core courses:
   - Conflict of Laws
   - Federal Jurisdiction
   - Remedies
   - Criminal Procedure II
2. Advanced Course Requirement: All students in the program must take at least one of the following advanced courses:
   - Alternative Dispute Resolution
   - Civil Procedure III-Post Trial Issues
   - Civil Rights Litigation
   - Complex Litigation
   - Criminal Trial Techniques
   - Mediation
   - Professional Malpractice Litigation
3. Skills Requirement: All students in the program must take at least two of the following courses:
   - Advanced Legal Writing: Litigation Drafting
   - Appellate Advocacy II
   - Appellate Advocacy III
   - Appellate Advocacy IV
C. Electives: The following electives may also help satisfy the minimum total hours requirement:

1. Clinics and Externships
   - Bankruptcy Court Clerkship
   - Child and Family Services Clinic
   - Court Clerkship
   - Death Penalty Clinic
   - Department of Labor Clinic
   - Family Law Clerkship
   - Federal Public Defender Externship Clinic
   - Legal Aid Clinic
   - National Labor Relations Board Clinic
   - Public Defender Trials Clinic
   - United States Attorney's Office Law Clinic
   - Wrongful Convictions II

2. Other Coursework
   - Administrative Law
   - Advanced Lawyering Processes (second semester only)
   - Criminal Trial Techniques
   - Criminal Sentencing Law Practice & Procedure
   - Employment Discrimination
   - Family Law Practice
   - Famous Trials
   - Independent Study (if approved by student's emphasis area adviser on the basis that the course of study relates directly to litigation)
   - The Jury: Practice and Perspectives
   - Law Review (if approved by student's emphasis area adviser on the basis that the student's note or comment relates directly to litigation)
   - Legal Research (if approved by student's emphasis area adviser on the basis that the student's writing relates directly to litigation)
   - Missouri Civil Procedure
   - Seminar in the Ethics of Criminal Advocacy
   - Wrongful Convictions I
   - Wrongful Convictions II
   - Any other course if, before beginning the course, the student obtains written approval from both the emphasis area litigation adviser committee and the student's emphasis area adviser. Such approval shall not be granted unless the committee and the adviser find that, in light of the student's other courses and the student's litigation-related goals, the course will advance the student's study of litigation to an extent equivalent to other litigation electives.

D. Courses may be added or deleted from the lists contained in sections A through C above with approval of the litigation emphasis area adviser committee and the faculty.
For a student to be recognized as having graduated with an Emphasis in Litigation, the student must have fulfilled the following requirements:

- The student must have satisfied all general and curriculum requirements set forth above.
- The student must have achieved a grade-point average of at least 3.0 in the field. This grade-point average shall be computed considering all Required Courses, Grouped Required Courses, and Elective Courses in the emphasis taken by the student, including any that exceed the minimum hour requirements for the Emphasis in Litigation.
Urban, Land Use and Environmental Law Emphasis Area Requirements

Students in their second or third year may elect to specialize in the "Urban, Land Use and Environmental Law" curricular emphasis program. To do so, a student must apply no later than the end of the second year. Advice about compliance with the requirements is available from the Emphasis Faculty Advisors.

Minimum Total Hours Required
Students must complete seven of the listed courses: students must complete all courses in Group A, three courses from Group B and one course from Group C. All courses must be taken for a grade (with the exception of those courses for which a grade option is not available). Course work satisfying this requirement must total at least 15 hours.

Writing Requirement
Students must complete an academic research paper of high professional quality concerning a topic within the field of the emphasis area. They may fulfill this requirement in conjunction with any of the listed courses, or as part of the Research and Writing requirement, as part of an Independent Study option, through one of the Law School's journal offerings, or through a research project pursued at the Center for the City at UMKC. Unless written to meet the R&W requirement, the paper must be written for a grade. Advance approval of the topic and faculty adviser is required by one of the land-use and environment faculty.

Practical Skills Component
Students must participate for at least one semester in a practical skills component. The following opportunities satisfy this requirement: the EPA Law Clinic, Region VII; the EPA Law Clinic, Agricultural Center; or a service placement with the Center for the City at UMKC. Participation in the EPA Law Clinics can simultaneously be used to satisfy the minimum hours requirement.

Ethics Component
Ethical considerations will be incorporated into the listed emphasis area courses.

Research Component
All students in the program must complete an advanced research offering which will provide advanced skills in research in the urban, land use and environmental law field. This may entail a separate course of study, a component of an existing course, or separate lecture, seminar or workshop offerings as designated by the Program Faculty Advisors.
Group A: Core Courses (must take all)
- Administrative Law
- Environmental Law
- Land Use Planning

Group B: Specialized Courses (must take three)
- Air & Water Regulation
- Cities and the Environment "J"
- Current Issues in Property Law Seminar
- Environmental Law Seminar
- International Environmental Law
- Law and the American Indian
- Natural Resources Law
- Preservation Law
- Seminar in Urbanization
- State & Local Government Law
- Toxic Torts
- Urban Lawyer Board
- U.S. Environmental Protection Agency Law Clinic: Region VII Headquarters
- U.S. Environmental Protection Agency Law Clinic: National Agricultural Compliance Assistance Center
- Water Law

Group C: Related Law Courses and Interdisciplinary Courses (must take one)
- Alternative Dispute Resolution (2)
- Complex Litigation (3)
- Economics and the Law (2) "J"
- Federal Jurisdiction (3)
- Legislation (3)
- Real Estate Finance (3-4)
- Real Estate Transactions (2)
- State and Local Government Tax (2-3)
- Biogeography and Landscape Ecology (3) (Department of Geosciences)
- Managing Urban Economic Development (3) (Bloch School)
- Urban and Regional Planning for Urban Administrators (3) (Bloch School)
- Urban Planning Theory and Practice (3) (Department of Architecture)
- Urban Planning and Design (This course would have additional assignments for law students)

To be recognized as having graduated with an emphasis in Urban, Land Use and Environmental Law, students must complete all requirements with an average grade of B or better (and no grade below a C). Students who have met the program requirements by the time of graduation will have this distinction noted at that time.
**J.D./MBA and J.D./M.P.A. Combined-degree Programs**

The School of Law has established combined-degree programs with the Henry W. Bloch School of Business and Public Administration. The program allows students to earn a juris doctor degree and a master of business administration or a master of public administration degree on an accelerated basis through cross-acceptance of some credit hours.

Applicants to the program must satisfy the admission requirements of each school and, if admitted into the program, may enroll in the first year of law school either before or after beginning M.B.A. or M.P.A. courses. Further information on admission and dual-degree requirements is contained on the School's Web site at http://www1.law.umkc.edu/Academic/index.htm.

**Combined J.D./LL.M. Degree Programs**

Qualified J.D. students will be permitted to apply up to 10 credit hours (12 with the permission of the Graduate Studies Committee) of UMKC graduate courses approved for this purpose toward an LL.M. (Taxation) or LL.M. (General) with Estate Planning Emphasis degree as well as toward a J.D. degree. This will allow students to earn such LL.M. on an accelerated basis, generally requiring only one additional semester (or two summer sessions) beyond that required for the J.D. degree.

The program is available to qualified students who begin their legal studies at the UMKC School of Law, who transfer to the school or who attend as visiting/certification students during their fifth or sixth semester of law study. For further information on admissions and combined degree requirements, contact the School of Law's Admissions Office or the programs by e-mail at UMKC-LLMTax@umkc.edu.
Business & Entrepreneurial Emphasis Area Requirements

To be admitted to the Emphasis in Business & Entrepreneurial Law program, an applicant must have a cumulative law school grade point average of at least 2.5, and must have a grade point average of at least 2.8 in all program courses or prerequisites which the student has taken prior to application for admission to the program. For this purpose, prerequisite business courses will also be counted, including Business Organizations and Federal Income Taxation.

The deadline for application to the program shall be no later than the beginning of the second week of classes of the student's sixth semester of law school. Any student who applies after the beginning of his or her fourth semester must demonstrate that the program can be completed by the end of the sixth semester of law school. Appropriate adjustments will be made to deal with part-time students not on the regular semester schedule. Exceptions to the deadlines may be made with approval of the Emphasis Faculty Advisors, by majority vote.

Minimum Total Hours Required
The program will require a minimum of 15 hours of approved courses. Group A contains the courses that are "Required." Group B is a list of courses that students may choose among, designated as the "Grouped Required" courses. Students must take at least three of the courses from the Group B list.
Any course in Group A or B may be counted toward the required total hours even if it is also used to satisfy the student's Research and Writing Requirement.

Writing Requirement
Students must complete an academic research paper of high professional quality, sufficient to meet the Research and Writing Requirement standards of publishable quality, concerning a business or entrepreneurial law topic. The research paper must be certified as acceptable by one of the Emphasis Area Faculty Advisors. Students may fulfill this requirement in conjunction with any of the Group A or B courses, or independently as part of the general Research and Writing Requirement, as part of an Independent Study option, through one of the Law Schools' journal offerings, or through a research project pursued at the Center for the City at UMKC. There is no separate requirement that the research paper be graded.

Practical Skills Component
Students must complete at least one course containing a substantial practical skills component. The following courses satisfy this requirement:

- LAW 8757 Business Planning
- LAW 8837 Negotiating Mergers & Acquisitions
- LAW 8875 Real Estate Transactions Planning Workshop
- LAW 8757R Entrepreneurial Law Clinic
- Advanced Legal Drafting (Business)

The requirement may be met by other internships, externships, simulation courses, drafting courses, or other courses designed to provide exposure to the type of work commonly performed by lawyers in the business and entrepreneurial law field, as the Emphasis Area Faculty Advisors
may find acceptable. It is intended that courses fulfilling this requirement will include at least one business drafting exercise.

**Ethics Component**

Each academic year, the Emphasis Area Faculty Advisors will provide four contact hours of lectures, seminars or workshops dealing with ethical issues that frequently arise in the business and entrepreneurial law field. Each student must complete this ethics requirement.

**Research Component**

All Emphasis Area Students must complete an advanced research offering which will provide advanced skills in research in the business and entrepreneurial law field. This may entail a separate one hour course of study, a one hour component of an existing course, or separate lecture, seminar or workshop offerings as designated by the Concentration Faculty Advisors.

Prerequisites or Co-requisites

- Business Organizations
- Federal Taxation

Required Courses (Group A)

- Securities Regulation
- Legal Accounting (or other approved accounting education)
- Either Taxation of Business Organizations or Corporate Tax I and Partnership Tax
- Either Secured Transactions or Real Estate Finance

Grouped Required courses (Group B) (Must take three courses)

- Business Planning
- Real Estate Finance
- Real Estate Transactions (May not count both Real Estate Finance and Real Estate Transactions.)
- Negotiating Mergers and Acquisitions
- Secured Transactions (If not taken to satisfy the UCC requirement or as a Group A course)
- Commercial Transactions (If not taken to satisfy the UCC requirement)
- Sales and Leasing (If not taken to satisfy the UCC requirement)
- Debtor/Creditor
- Problems in Bankruptcy (May not count both Debtor/Creditor and Bankruptcy.)
- Entrepreneurial Law/Practice Clinic
- Alternative Dispute Resolution
- International Business Transactions
- Labor Law
- Employment Discrimination Law
- Employment Law (No more than one course of the group including Labor Law, Employment Discrimination Law and Employment Law may be counted.)
- Administrative Law
- Intellectual Property Copyright Law (May not count both Intellectual Property and Copyright Law.)
- Antitrust and Competition Law
Tax-Exempt Organizations
The above requirements are in addition to any hours received in connection with the Writing Component (unless done in connection with a listed course), any hours received for the Advanced Research Component, or for the Ethics Component. In addition, a course shall not be required for any student who has not had a reasonable opportunity to take the course due to limited enrollment, or due to the fact that the School has not offered the course at least once after the student has been admitted to the program.

For a student to be recognized as having graduated with an emphasis in Business & Entrepreneurial law, the student must have achieved a grade-point average of at least 3.0 in the minimum number of emphasis course requirements listed as Required or Grouped Required; provided that a student may, at the student’s option, omit a grade received in either Corporate Tax I/Sub S Tax (combined) or Partnership Tax, while still counting the course to reach the required number of academic credit hours for the emphasis; and that a student may also omit any grade received in any Grouped Required (Group B) course, so long as the student has grades from at least three (3) Group B courses to be counted in the grade point average necessary for the emphasis.
Child & Family Law Emphasis Area Requirements

Students may apply after completing their second semester (or 29 credit hours). Students who are close to completing the hourly requirements may petition for early admission for good cause shown.

An application form will be available and must be submitted by the deadline announced by the Child and Family Law Faculty. Decisions as to whether a student will be admitted to the Emphasis in Child and Family Law will be made in the semester in which the student applies.

Procedure and Criteria for Selection:

The Child and Family Law Faculty will select the students to be admitted to the program. Criteria to be considered may include previous general academic performance in law school, previous academic performance in courses seen as particularly relevant to the emphasis area, level of interest in serving children or families, and ability to identify an adviser willing to advise and supervise the student.

No student shall be admitted to the Child and Family Law program unless he or she has a grade-point average of 2.6 or above in all law school classes previously taken.

The Child and Family Law Faculty is authorized to make appropriate adjustments in the deadlines for part-time students or other students whose schedules do not substantially conform to the six semester paradigm.
Of the 19 hours required for the emphasis, the student must complete

- The basic family law course (three credit hours).
- A minimum of six hours of clinical credit (described below).
- At least six credit hours from a list of core curriculum (listed below).
- At least four credit hours which may be taken from other core curriculum courses or a list
  of elective courses (listed below).

Prerequisite Course
All students in the emphasis must take Family Law. Because this foundation course is a
prerequisite for most other courses in the concentration, students accepted for the concentration
will be given a priority in enrollment in the course.

Core Courses
Students must take at least six credit hours chosen from the classes listed below:

- Children in the Law
- Juvenile Offenders & The Law
- Family Violence
- Family Law Practice
- Estate Planning and Drafting
- Gender and Justice

Clinical Component
All students in the Child and Family Law program must take at least six credit hours of clinical
coursework. This coursework may consist of

- Family Law Clerkship
- Child & Family Services Clinic
- Legal Aid Clinic
- Internship
- Guardian Ad Litem Workshop

Elective Courses

- Mediation
- Workshop on Current Issues in Family Law
- Alternative Dispute Resolution
- Elder Law For Estate Planners
- Disabilities and the Law
- Immigration Law and Process
- Education Law: Government & Legal Aspects of Education
- Comparative Perspectives on Bioethics and Assisted Reproduction
- Independent Study (if approved by Child and Family Law adviser on the basis that the
course of study relates directly to the emphasis area)
- Law Review (if approved by Child and Family Law adviser on the basis that the student's
  note or comment relates directly to the emphasis area)

Any other law school course if, before beginning the course, the students obtains written
approval from the Child and Family Law Faculty. Such approval shall not be granted unless the
Child and Family Law Faculty find that, in light of the student's other courses and the student's goals in the emphasis study, the course will advance the student's study of Child and Family Law to an extent equivalent to other Child and Family Law electives. Courses may be added or deleted from the lists contained in sections A through C above with approval of the Child and Family Law Faculty and the Law School faculty.

For a student to be recognized as having graduated with an Emphasis in Child and Family Law, students must have

- timely completed all concentration requirements
- received the approval of the Child and Family Law faculty of the student’s portfolio and
- earned a 3.0 grade point in concentration course work (required and elective courses).

This grade-point average shall be computed considering all Required and Elective Courses in the emphasis taken by the student, including any that exceed the minimum hour requirements for the Emphasis.
Litigation Emphasis Area Requirements

Selection of Students for Admission to the **Emphasis in Litigation**

- **Deadline for admission to the Emphasis in Litigation program**: Students should apply not later than their fifth semester of law school. An application form will be available and must be submitted by the deadline for applications set by the litigation concentration advisors committee and circulated to the student body. Decisions as to whether a student will be admitted to the Emphasis in Litigation will be made in the semester in which the student applies.

- **Procedure and Criteria for Selection**:
  - The maximum number of students who will be permitted to enter the litigation program each year will be set by the litigation advisory committee taking into account the ability of the advisors to provide adequate supervision and advising. Each litigation adviser may set a maximum number of students that he or she will advise.
  - The litigation advisory committee will select the students to be admitted to the program. Criteria to be considered may include previous general academic performance in law school, previous academic performance in courses seen as particularly relevant to litigation, level of interest in litigation, and ability to identify an adviser willing to advise and supervise the student.

- **Part-time Students and Other Students with Unusual Schedules**: The litigation advisory committee is authorized to make appropriate adjustments in the deadlines for part-time students or other students

**Minimum Total Hours Required**

1. To complete the litigation program, a student must take a total of at least 26 hours in approved courses. Approved courses are those listed as "Required Courses," "Grouped Required Courses," and "Elective Courses".

2. No more than three hours of courses used by the student to satisfy the UCC or Jurisprudence requirement may count toward the required 26 hours.

3. A course (including Law 746) used to satisfy the student's writing requirement (see below) may be counted toward the total hours requirement even if it is also used to satisfy the student's Research and Writing Requirement.

**Writing Requirement**

1. Each student in the litigation program must complete a written project, approved by a supervisor, on a topic dealing directly with litigation.

2. The written project must be of a scope and quality that would satisfy the law school's research and writing requirement for a J.D. degree.

3. The written project may satisfy both the requirement of the litigation program and the J. D. requirement.

**Practical Skills Component**

All students in the litigation program must take at least two of the following courses:

- Advanced Legal Writing: Litigation Drafting
• Appellate Advocacy II
• Appellate Advocacy III
• Appellate Advocacy IV
• Fundamentals of Investigation
• Trial Advocacy I
• Trial Advocacy II
• Trial Advocacy III

**Ethics Component**
1. Each student in the litigation program must participate in at least one, substantial, non-credit workshop on ethical issues for litigators.
2. Workshops will be organized by the litigation advisers and conducted by faculty, practicing lawyers, or judges.

**Research Component**
1. Each student in the litigation program must participate in at least one, substantial non-credit workshop on research materials and sources frequently consulted by litigators on issues directly related to the litigation process, or must complete the course Advanced Legal Research-Litigation.
2. Workshops will be organized by the litigation advisers and the librarians. They will be conducted by faculty, librarians, practicing lawyers or judges. Supervising and Advising Component Each student in the litigation program shall be assigned an adviser. Each student in the litigation program shall meet with his or her adviser not less than twice a semester.

**Supervising and Advising Component**
1. Each student in the litigation program shall be assigned an adviser.
2. Each student in the litigation program shall meet with his or her adviser not less than twice a semester.
Distribution of Courses

A. Required Courses: All students in the program must take each of the following courses:

- Civil Procedure I
- Civil Procedure II
- Criminal Procedure I
- Evidence

B. Grouped Required Courses: All students in the program must also satisfy the Core Course Requirement, the Advanced Course Requirement, and the Skills Requirement set forth below:

1. Core Course Requirement: All students in the program must take at least two of the following core courses:
   - Conflict of Laws
   - Federal Jurisdiction
   - Remedies
   - Criminal Procedure II
   - Post Conviction Remedies

2. Advanced Course Requirement: All students in the program must take at least one of the following advanced courses:
   - Alternative Dispute Resolution
   - Applied Evidence
   - Applied Federal Criminal Procedure & Evidence
   - Civil Rights Litigation
   - Complex Litigation
   - Criminal Trial Techniques
   - Mediation
   - Missouri Civil Procedure
   - Professional Malpractice Litigation

3. Skills Requirement: All students in the program must take at least two of the following courses:
   - Advanced Legal Writing: Litigation Drafting
   - Appellate Advocacy II
   - Appellate Advocacy III
   - Appellate Advocacy IV
   - Trial Advocacy I
   - Trial Advocacy II
   - Trial Advocacy III

C. Electives: The following electives may also help satisfy the minimum total hours requirement:

1. Clinics and Externships
   - Bankruptcy Court Clerkship
   - Child and Family Services Clinic
   - Death Penalty Clinic
   - Department of Labor Clinic
   - Family Law Clerkship
   - Federal Court Internship
   - Federal Public Defender Externship Clinic
   - Innocence Project Clinic
2. Electives & Other Coursework
   - Administrative Law
   - Advanced Legal Research - Litigation
   - Advanced Lawyering Processes (second semester only)
   - Criminal Trial Techniques
   - Criminal Sentencing Law Practice & Procedure
   - Employment Discrimination
   - Family Law Practice
   - Famous Trials
   - Global Legal Systems
   - Independent Study (if approved by student's litigation adviser on the basis that the course of study relates directly to litigation)
   - Intellectual Property Litigation
   - Introduction to the Resolution of International Commercial Disputes
   - Jury Selection
   - The Jury: Practice and Perspectives
   - Law Review (if approved by student's litigation adviser on the basis that the student's note or comment relates directly to litigation)
   - Legal Research (if approved by student's litigation adviser on the basis that the student's writing relates directly to litigation)
   - Missouri Supreme Court and Constitution
   - Seminar in the Ethics of Criminal Advocacy
   - Trans-National Litigation
   - Wrongful Convictions
   - Any other course if the student obtains written approval from the student's litigation adviser. Such approval shall not be granted unless the adviser find that, in light of the student's other courses and the student's litigation-related goals, the course will advance the student's study of litigation to an extent equivalent to other litigation electives.

D. Courses may be added or deleted from the lists contained in sections A through C above with approval of the litigation advisory committee and the faculty.

For a student to be recognized as having graduated with an Emphasis in Litigation, the student must have fulfilled the following requirements:

1. The student must have satisfied all general and curriculum requirements set forth above.
2. The student must have achieved a grade-point average of at least 3.0 in the field. This grade-point average shall be computed considering all Required Courses, Grouped Required Courses, and Elective Courses in the emphasis taken by the student, including any that exceed the minimum hour requirements for the Emphasis in Litigation.
International, Comparative & Foreign Law (ICF) Emphasis Area Requirements

After their first year and before their final semester, or with approval in other circumstances, students may be admitted to the International, Comparative, and Foreign Law (“ICF”) Emphasis if their cumulative law school GPA is 2.7 or above. To graduate with the ICF Emphasis, students must have a cumulative minimum GPA of 2.7 and a minimum GPA within the emphasis area of 3.0.

1. Courses:

Student will have to take a total of 16 credit hours from the below mandatory and elective courses.

a. Required: The following two mandatory classes must be taken:

- International Law (3 hours)
- Global Legal Systems (3 hours)

The above classes will include consideration of ICF professional responsibility issues.

b. Electives: The remaining hours to be satisfied from the following courses (note: not all below are offered every year):

- Conflict of Laws
- Immigration Law & Policy or Immigration Law & Process
- International Business Transactions
- International Human Rights
- International Taxation
- International Trade & Finance
- National Security Law
- Transnational Litigation & Arbitration
- Courses offered as part of an approved overseas experience (only one approved overseas experience will count towards the emphasis)

Other Courses may be approved by the ICF advisor to count towards the Emphasis. Where a course includes a substantial component of ICF law, part of that course may count towards the 16 hour requirement with advance approval from the ICF advisor.

2. Required Overseas Legal Experience

This would include such experiences as:

The Ireland, China, Oxford or other law summer programs; or
An overseas Mini-Term course (if offered); or
Another experience approved in advance by the ICF advisor.

These experiences may constitute a “skills” component, depending on the specifics of the experience. The credits earned from ONE approved overseas experience may be counted towards the required 16 hours for the Emphasis.

3. Required Writing Project:

A paper satisfying the R&W requirement or an equivalent independent study writing project (including law review notes or comments) must be undertaken by writing on an ICF subject (subject to be approved by the ICF advisor).

This requirement may also be satisfied through participation on the Jessup International Moot Court Team or other equivalent international competition with approval of the ICF advisor.

Class papers do not satisfy this requirement, but may be expanded as an independent paper or the R&W paper, and with approval of the ICF advisor, the expanded paper may satisfy this requirement. Any credits earned through satisfaction of this writing requirement will NOT be counted towards the 16 hours.
Master of Laws Degree

- Admissions
- Non-Degree Candidates
- Master of Laws Degree Requirements
  - Combined J.D./LL.M. Degree Programs
  - Curriculum, Master of Laws (Taxation)
  - Curriculum, Master of Laws (General)
  - Curriculum, Master of Laws (General) with Estate Planning Concentration
  - Curriculum, Master of Laws (Urban Affairs)
  - LL.M./M.P.A. Joint Degree Program
  - Academic Rules and Regulations
  - Fee Information
  - Financial Aid
  - Scholarships
- Master of Laws Degree for Foreign Students
  - Admissions
    - Eligibility
    - Admissions Process
  - Degree Requirements
  - Curriculum
  - Academic Rules and Regulations
  - Attendance, Examination and Withdrawal from Courses
    - Grading
  - Fee Information
  - Financial Aid
  - Scholarships
LL.M. Scholarships

**Arthur Mag Graduate Law Fellowship**

In recognition of Arthur Mag's service to the University of Kansas City and UMKC, the Edward F. Swinney Trust has provided a grant for the establishment of Arthur Mag graduate fellowships to support full-time graduate study at UMKC. Arthur Mag Fellows work closely with distinguished professors in their graduate degree programs. These professors serve as mentors throughout the fellows' graduate work.

One of these fellowships is designated for the School of Law, and is provided each year to an outstanding student in the School of Law's LL.M. program.

The *Arthur Mag Graduate Fellowship in Law* includes a stipend of $10,500 for the 2006-2007 academic year; remission on non-resident fees, if applicable; and remission of 18 hours of graduate law educational fees, for a total possible compensation of nearly $28,000.

Applicants must be U.S. citizens who are planning to pursue the graduate program on a full-time basis.

More information, including a "generic" application form that may be copied and used and a faculty recommendation form, may be obtained/downloaded from the School of Graduate Studies Web site at: [http://sgs.umkc.edu/financial.asp#arthur](http://sgs.umkc.edu/financial.asp#arthur).

**John B. Gage Memorial Fellowships**

Fellowship awards are provided annually to outstanding students entering as full-time LL.M. degree candidates from a fund endowed by friends of alumnus John B. Gage, a teacher of law, former mayor of Kansas City and eminent lawyer.

**Minority Graduate Student Fellowships**

The UMKC School of Graduate Studies annually awards up to three Minority Graduate Fellowships of $600 each, applicable to the student's graduate educational fees. The fellowship is renewable for one additional year provided the student maintains a 3.0 grade-point average and the law school certifies that the student is in good standing and making normal progress toward the degree. Those eligible for nomination for these fellowships at the law school include blacks, Hispanics, Native Americans and Asian Americans who are degree-seeking LL.M. students admitted or enrolled at UMKC for the ensuing academic year and who are U.S. citizens. Fellows must maintain a minimum enrollment of six credit hours per semester.

**UMKC Graduate Tax Law Foundation Scholarship**

The Graduate Tax Law Foundation provides a periodic cash award to outstanding LL.M. (Taxation) students and outstanding J.D. tax students.
The law school offers several partial tuition scholarships (valued at more than $12,000) and one full tuition scholarship. To be considered for a scholarship, the applicant must have a complete application and must fill out the scholarship application form, which is available at the website of the foreign LL.M. program: http://www1.law.umkc.edu/academic/china/LLM/overview.htm

**Additional Information**

Additional information about the program, including forms, pictures, and video interviews of students, is available at the website of the foreign LL.M. program: http://www1.law.umkc.edu/academic/china/LLM/overview.htm

**Non-Degree Candidates**

Post-J.D. study may be undertaken on a non-LL.M. basis. Applicants who wish to obtain an LL.M. degree but who do not have the required grade-point average may be permitted to enroll as a non-degree candidate. They may be considered for later admission to the degree program on the basis of performance in courses taken as a non-degree candidate.

**Master of Laws Degree Requirements**

1. Completion of 24 credit hours, 18 of which must be taken from the list of required and elective courses provided for each program.

2. A cumulative GPA of at least 3.0 (2.7 for the LL.M. [Taxation] and the LL.M. [General] with Estate Planning Concentration). See the Administrative Rules and Regulations section that follows.

3. Completion of all required courses. See the "Required Courses" for each program.

4. Enrollment in a minimum of four credit hours each semester.

5. Successful completion of all coursework (including thesis, if applicable) within three years from the beginning of the course of studies leading toward the degree.

Upon enrollment in the graduate program, a student is assigned a faculty adviser. In consultation with the adviser, the student develops a plan of study that meets the requirements for the degree in the program area selected. The adviser must approve enrollment in all courses.

**LL.M. Academic Rules and Regulations**

**Attendance, Examinations and Grades, and Withdrawal from Courses**

The administrative rules and regulations set forth for the juris doctor degree program covering these matters also apply to the master of laws degree programs.

**Scholastic Probation and Dismissal**

A student will be placed on scholastic probation whenever the student's GPA falls below 3.0 (2.7 for the LL.M. [Taxation] degree and LL.M. [General] with Estate Planning Concentration
A student on probation must attain an overall 3.0 GPA (2.7 for the LL.M. in [Taxation] and LL.M. [General] with Estate Planning Concentration) by the end of the next semester of coursework, or, unless an exception is made by the Graduate Studies Committee, the student will be dismissed from the program for academic deficiency.

**Foreign Student Eligibility for the LL.M. Program**

The School of Law offers a graduate program for foreign law students leading to the master of laws (LL.M.) degree. Admission generally is limited to applicants who have a College degree in law from a recognized school. There is no minimum GPA required for admission, but applicants’ academic ability will be considered, and applicants must have demonstrated English proficiency, which will be evaluated by an interview and through test scores. The LSAT is not required, but students should take either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) exam. Successful applicants typically have a minimum TOEFL score of 550 on the paper exam, or 80 on the Internet version, or a minimum IELTS score of 5.5). The required interview, however, is an important component of evaluation, and not all students with scores in the low range will be admitted. In some cases, the law school may require additional English study at UMKC prior to the start of the LL.M. program as a condition of admission.

**Foreign Student LL.M. Admissions Process**

A Foreign LL.M. admission packet consists of the following:

- The Foreign LLM application form;
- The application fee;
- An autobiographical essay or personal statement
- Official academic credentials for undergraduate and, if applicable, graduate study (transcripts and, if applicable, degree certificates), including literal English translations of academic credentials if the official credentials are not in English;
- An official TOEFL or IELTS score report;
- An original or certified copy of a financial statement proving financial ability, including a notarized letter of support explaining the relationship to the applicant and pledging financial support if funding is from a family member or sponsor (non-English documents must be accompanied by an English translation)
- One signed letter of recommendation;
- A copy of the biographical information/photo page from your passport (this can be supplied later if you do not have a passport)

There is no formal application deadline, but applications should be submitted by April 1 for optimal consideration. Applications are reviewed once the file is complete, and admission is available so long as there are seats available in the incoming class.

In addition to the admissions packet, applicants must have an interview with the Director of the program, the Associate Dean for International Programs, or a designee of one of them. Interviews in person are preferred, but can also be conducted by telephone. Information on arranging the interview is available on the website of the program: [http://www1.law.umkc.edu/academic/china/LLM/overview.htm](http://www1.law.umkc.edu/academic/china/LLM/overview.htm)
Foreign Master of Laws Degree Requirements

1. Completion of three required courses with grades of pass or better: Introduction to Law and Lawyering – International (3 credit hours), Introduction to American Law and Culture (2 credit hours), and Introduction to American Legal Skills (2 credit hours).

2. Completion of an additional 17 credit hours from courses approved by the Foreign LL.M. advisor with grades of pass or better.

3. Successful completion of all coursework within three years from the beginning of the course of studies leading toward the degree.

Upon enrollment in the graduate program, a student is assigned a faculty adviser. In consultation with the adviser, the student develops a plan of study that meets the requirements for the degree in the program area selected. The adviser must approve enrollment in all courses.

Foreign Student LL.M. Curriculum

Beyond the required courses, students work with their advisor to select courses suitable to their plan of study. Most students take a variety of courses that provide exposure to U.S. law and a foundation for preparing for a bar examination in a U.S. jurisdiction. However, some students may specialize in a particular field, such as one of the School’s Emphasis areas (Business & Entrepreneurial Law; Litigation; Urban, Land Use & Environmental Law; Child and Family Law) or in another area with significant course offerings (such as International Law or IP). Unlike some LL.M. programs for foreign students, the students in UMKC’s program have access to J.D. courses, and have the opportunity to interact with J.D. students.

Foreign Student LL.M. Academic Rules and Regulations

The academic rules and regulations set forth for the juris doctor degree program covering these matters also apply to the master of laws degree programs.
Foreign Student LL.M. Grading

The grading scale is as follows:

- A (including + and -)
- B (including + and -)
- C (including + and -)
- Pass
- Not Pass

The A, B, C grades are given consistent with standards for juris doctor students, and if a foreign LL.M. student a student achieves this level of grade, he or she may transfer the credit to the juris doctor program. A “pass” grade signifies that the student has not performed to the level required of a juris doctor student, but that the student has demonstrated basic competency on course objectives as those objective relate to the foreign LL.M. program. If the student earns a grade of “pass” the student receives LL.M. credit, but cannot transfer the credit to the JD program. A “not pass” indicates that the student did not demonstrate basic competency on course objectives, and that course does not count towards fulfilling the graduation requirements for the LL.M. degree.

Accommodation of LL.M. students. A professor in his or her discretion may allow additional work beyond that assigned generally in the course to allow a foreign LL.M. student to achieve a “pass” grade. The professor should indicate at the beginning of the course whether he or she will allow additional work, and what conditions or standards may apply. Supplemental work is to be decided upon by the faculty member. Examples include a paper, re-taking of an exam, an oral examination, field observations and reports.

Curriculum, Master of Laws (General)

Program Requirements
There are no specific course requirements. Rather, the course of studies is one developed by the student and his/her adviser based upon a set of courses related to a specific thematic goal and approved by the graduate studies committee. It must include a thesis related to the subject area chosen.

Jurisprudential Requirement
Students must take one jurisprudential course approved by their adviser.

Thesis Requirement
A minimum of four and a maximum of eight credit hours (to be determined by students in consultation with their thesis adviser) may be given for a written thesis on a subject approved by the student's thesis committee. The thesis must show substantial evidence of original research or development of the principles of at least one interdisciplinary field related to the student's thematic goal; be at least 75 pages in length; and be of high scholastic quality, suitable for publication as a lead article in a scholarly journal.
The thesis committee, consisting of the thesis adviser (selected by the student with the adviser's consent) and the UMKC School of Law graduate studies committee, must approve the topic and the final form and substance of the thesis.

Other Courses
The UMKC Law School graduate studies committee may approve up to six credit hours of courses in other schools and departments of the University related to the student's thematic goal. Generally, students may not take required or basic bar examination J.D. courses for graduate credit.

Curriculum, Master of Laws (Taxation)
Required Courses (14 credit hours)
- LAW 8834 Tax Procedure-or- LAW 8834R Tax Clinic (2)
- LAW 8838R Tax Practicum -or- LAW 8746R Tax Research (2)
- LAW 8886 Corporate Taxation I
- LAW 8887 Corporate Taxation II
- LAW 8888R Partnership Taxation
- LAW 8893R Taxation of Property Transactions

Elective Tax Courses
- LAW 8611R Dispositions and Succession Planning of Business Interests (1)
- LAW 8612R Estate Planning with Life Insurance (1)
- LAW 8613R Special Problems in Estate Planning (1)
- LAW 8614R Estate Planning for Retirement Plan (1)
- LAW 8615 Estate Planning and Practice (3-4)
- LAW 8615R Estate Planning for Charitable Giving (1)
- LAW 8616R Fiduciary Administration for Estate Planners (1)
- LAW 8617R Elder Law for Estate Planners
- LAW 8746R Independent Study (tax topic) (0.5-3)
- LAW 8757R Entrepreneurial Law & Practice Clinic (2-3)
- LAW 8838 Tax Accounting (1-3)
- LAW 8838L Legal Accounting (1)
- LAW 8838R Tax Practicum (1-3)
- LAW 8843 Federal Income Taxation of Trusts and Estates (2)
- LAW 8845 Deferred Compensation (2-3)
- LAW 8848R State and Local Taxation (2-3)
- LAW 8868 Trusts: Planning, Drafting, Litigating
- LAW 8868R Valuation for Transfer Tax Purposes (2-3)
- LAW 8874 Tax-Exempt Organizations
- LAW 8888A Advanced Partnership Taxation (1-2)
- LAW 8889 International Taxation (2-3)
- LAW 8889R Subchapter S Taxation
- LAW 8892R Taxation of Estates, Gifts and Trusts (2-3)
- LAW 8894R Tax Aspects of Bankruptcy (2)
Other Courses

Taken at UMKC School of Law

The Director of the Graduate Tax Program may approve a student taking up to 6 credit hours of UMKC Law School courses outside of the listed tax courses, without the necessity of obtaining Graduate Studies Committee approval, if, in the Director’s judgment, such courses are suitable to prepare the student for a tax-sensitive practice area (e.g., business planning, estate planning or real estate development).

Taken at Other UMKC Graduate and Professional Schools

The Director of the Graduate Tax Program may approve up to 6 credit hours from the interdisciplinary course offerings of other UMKC graduate and professional schools.

Taken at Other Law Schools

The Director of the Graduate Tax Law Program may allow Tax, LL.M. candidates to count towards degree requirements up to 6 credit hours of tax courses taken at other law schools so long as (i) they are, in the judgment of both the Director and the applicable instructor here, of comparable coverage and quality to the corresponding required or elective tax courses eligible or required for LL.M credit at UMKC and (ii) the student earned a grade of “B” or higher in such course(s). This would normally involve reviewing the student’s transcript and the syllabus and assignments list for the subject course(s) taken elsewhere. However, in no event would a combined degree student be able to count (in total) toward the LL.M more than 12 hours of credit that have been or are being applied toward their JD degree.

Curriculum, Master of Laws (General) with Estate Planning Concentration

Effective fall semester 2007, the Master of Laws (General) with Estate Planning Concentration program has been suspended. Applications are not accepted for and students may not enroll in the program at this time.

Required Courses (17 credit hours)

- LAW 8615 Estate Planning and Practice (3)
- LAW 8618R Drafting and Preparation of Estate Plans (2)
- LAW 8800 Thesis (4-8)
- LAW 8838R Tax Practicum (1)
- LAW 8843 Federal Income Taxation of Trusts & Estates (2)
- LAW 8868R Valuation for Transfer Tax Purposes (3)
- LAW 8892R Taxation of Estates, Gifts and Trusts (3)

Elective Courses
LAW 8611R Dispositions and Succession Planning of Business Interests (1)
LAW 8612R Tax Planning with Life Insurance (1)
LAW 8613R Special Problems in Estate Planning (1)
LAW 8614R Estate Planning for Retirement Plan Benefits (1)
LAW 8615R Estate Planning for Charitable Giving (1)
LAW 8616R Fiduciary Administration for Estate Planners (1)
LAW 8617R Elder Law for Estate Planners (1)
LAW 8757R Entrepreneurial Clinic (2)

Thesis Requirement

A minimum of four and a maximum of eight credit hours (to be determined by the student in consultation with the thesis adviser) may be given for a written thesis on a subject approved by the student's thesis committee. The thesis must show substantial evidence of original research or development of the principles of at least one interdisciplinary field related to the student's thematic goal; be at least 75 pages in length; and be of high scholastic quality, suitable for publication as a lead article in a scholarly journal.

The thesis committee, consisting of the thesis adviser (selected by the student with the adviser’s consent) and the UMKC School of Law graduate studies committee, must approve the topic and the final form and substance of the thesis.

At the option of the Director of the Estate Planning Program, the thesis requirement may be met by satisfactory completion of Law 618R and Law 746R (for 2 credit hours), requiring the student to research and write a substantial original work in the estate planning field.

Other Courses

The UMKC graduate studies committee may approve up to six credit hours from other UMKC Law School course offerings or from the interdisciplinary offerings of other UMKC graduate and professional schools. However, such courses may not be required or be basic bar examination J.D. courses.

Curriculum, Master of Laws (Urban Affairs)

Because of the complexity and diversity of their setting, urban problems sometimes transcend traditional legal solutions. The interdisciplinary Urban Legal Affairs Program prepares lawyers for specializing in practice, public service and corporate and financial institutions dealing with metropolitan-area problems. Students may pursue the areas of Planning and Governance, Environment and Natural Resources, and Real Estate Development.

Courses Available

- LAW 8732 Alternative Dispute Resolution (2-3)
- LAW 8898 Construction Law (2)
- LAW 8773 Environmental Law (2-3)
- LAW 8766 Land Use Planning (2-3)
- LAW 8728 Law and the American Indian (2-3)
- LAW 8641R Legislation (2-3)
• LAW 8783 Natural Resources Law (2-3)
• LAW 8729 Preservation Law (2-3)
• LAW 8861 Real Estate Finance (3)
• LAW 8875 Real Estate Transactions (2-3)
• LAW 8862 Seminar in Urbanization (2)
• LAW 8770 State and Local Government Law (2-3)

Thesis

If elected, a minimum of four and a maximum of eight credit hours (to be determined by the student in consultation with the thesis adviser) may be given for a written thesis on a subject approved by the student's thesis committee. The thesis must show substantial evidence of original research or development of the principles of at least one interdisciplinary field related to the area of urban studies pursued; be at least 75 pages in length; and be of high scholastic quality, suitable for publication as a lead article in a scholarly journal. The thesis committee, consisting of the thesis adviser (selected by the student with the adviser's consent) and the School of Law graduate studies committee must approve the topic and the final form and substance of the thesis.

Other Courses

The School of Law graduate studies committee may approve other law school courses and up to six credit hours of courses in other schools and departments of the University related to the area of urban affairs pursued. Generally, students may not take required or basic bar examination J.D. courses for graduate credit.
Before enrollment, the student will work with the associate dean toward developing an individualized urban affairs course of studies.

Admissions

Eligibility for the LL.M. Program
The School of Law offers three graduate study programs in law leading to the master of laws degree: the LL.M. (taxation); the LL.M. (urban affairs); and the LL.M. (general). In addition, as part of the LL.M. (general) program, an estate planning concentration is available to qualified applicants. Admission is limited to applicants who have attained the juris doctor or equivalent degree from an approved law school and who have a law school GPA of at least 2.7 on a 4.0 scale.
The School of Law also offers a master of laws degree program for foreign students. Eligibility criteria, admissions process, degree requirements, curriculum and other pertinent information specific to this program is detailed separately in this catalog. See, "Master of Laws Degree for Foreign Students."

Admissions Process
An LL.M. admission application, application fee and official law school and undergraduate transcripts must be submitted for admission. There is no formal application deadline, but early submission of applications is recommended.
**LL.M./M.P.A. Joint Degree Program**
A joint LL.M./M.P.A. degree program between the School of Law and the Henry W. Bloch School of Business and Public Administration can be arranged with the approval of the Law School graduate studies committee.

**J.D./MBA and J.D./M.P.A. Combined-degree Programs**
The School of Law has established combined-degree programs with the Henry W. Bloch School of Business and Public Administration. The program allows students to earn a juris doctor degree and a master of business administration or a master of public administration degree on an accelerated basis through cross-acceptance of some credit hours.

Applicants to the program must satisfy the admission requirements of each school and, if admitted into the program, may enroll in the first year of law school either before or after beginning M.B.A. or M.P.A. courses. Further information on admission and dual-degree requirements is contained on the School's Web site at http://www1.law.umkc.edu/Academic/index.htm.
Management, Henry W. Bloch School of
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bloch@umkc.edu
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Chair, Department of Marketing & Supply Chain Management:
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Director, Executive MBA Program: Joan Gallos
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Nicholas Peroff

Coordinator, Doctoral Studies in Entrepreneurship and Innovation:
Lisa Song

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- Decision Science and Operations Management (DSOM)
- Entrepreneurship (ENT)
- Finance (FIN)
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- Management (MGT)
- Management Information Systems (MIS)
- Marketing (MKT)
- Public Administration (PUB-ADM)
- Real Estate (RL-EST)

About the Bloch School

Degree Programs
The Bloch School offers the degrees of bachelor of business administration (B.B.A.), bachelor of science in accounting (B.S. in accounting), master of business administration (MBA), master of public administration (M.P.A.), master of science in accounting (M.S. in accounting), master of science in finance (M.S.F.), and master of entrepreneurial real estate (M.E.R.E.). Within the MBA program there is an Executive MBA (EMBA) offering, within the M.P.A., there is an Executive M.P.A. (E.M.P.A.) and within the M.E.R.E., there is an Executive program (E.M.E.R.E.). Additionally, the School has two joint degree programs with the UMKC School of Law, the J.D./MBA and the J.D./M.P.A. degrees, and also participates in the Interdisciplinary Ph.D. program. The Bloch School also offers business and entrepreneurship minors.

History
The University has offered business courses since 1933. In 1953, with the support and encouragement of the Kansas City community, the School of Business Administration was established. Since that time, the Bloch School has grown to a student body of 1,900 and a faculty of approximately 45 professional educators. In January 1988, the School was renamed for Henry W. Bloch, co-founder of H&R Block, and moved into a newly expanded building. In 2010, the School officially changed its name to the Henry W. Bloch School of Management to reflect our differentiation as a school that integrates business management, public administration and the infusion of a global, innovative and entrepreneurial mindset.

Mission and Vision
The Henry W. Bloch School of Management develops purposeful, entrepreneurial and innovative leaders to meet changing global demands, and advances knowledge and practice through excellent teaching, scholarship, outreach and service.
The Bloch School aspires to be Kansas City's nationally and globally preeminent school of management focusing on entrepreneurship and innovative thinking as the foundation for transforming talent and achieving sustainable growth in for-profit, public, and nonprofit enterprises.

**Accreditation**
The Bloch School is accredited by AACSB International - The Association to Advance Collegiate Schools of Business and by the National Association of Schools of Public Affairs and Administration (NASPAA).

**Advising and Student Services**
Staff in the Student Services Office, room 115 of the Bloch School, assist students in applying for admission, planning programs and registering for courses. Freshmen and junior students must be advised each semester and advising is required for new students and students on probation. Advising information can be found at http://www.bloch.umkc.edu/current-students/student-services/advising/index.aspx. Faculty of the School's six curricular departments are also available to discuss students' programs. Students in the M.P.A., M.E.R.E., M.S.F., and MSA programs are advised by departmental faculty.

**Scholarships**
The Bloch School offers numerous scholarships for students enrolled in Bloch degree programs. Information and applications are available on the Bloch School Web site at http://www.bloch.umkc.edu/current-students/bloch-scholarships/index.aspx. March 1 is the deadline for the majority of these scholarships, which are awarded for the following academic year. For information on loans, grants and other financial aid, contact the UMKC Student Financial Aid and Scholarships Office.

**Internships**
Students who want to experience work opportunities while in school are encouraged to take their learning beyond the classroom through internships. For-credit internships typically carry one to three hours of credit. To earn academic credit, students should identify a Bloch School faculty member qualified and willing to supervise an internship, complete an internship form available on the Bloch School Web site at http://www.bloch.umkc.edu/current-students/student-services/forms/index.aspx and enroll in an approved internship course. Interested students may contact the UMKC Career Services Office or refer to the Bloch School Career Launcher (available on Blackboard for students admitted to the Bloch School) for internship opportunities.

**International Study Abroad**
Bloch School students have the opportunity to study abroad for credit. Students may study for a week, a semester, an academic year or in a special summer program at business schools in Europe and other parts of the world. Students who are interested in study abroad opportunities should contact the Bloch School Student Services Office or the UMKC Center for International Academic Programs.
Undergraduate Policies and Procedures

Admission Requirements
Admission to undergraduate programs is available in the fall, spring and summer semesters. Students can elect to attend classes full-time or part-time and although the majority of courses are offered during the day, courses are also offered in the evening. First-time college students are eligible to be admitted to the Bloch School if they meet regular UMKC entrance requirements. Those transferring from other institutions must have 2.5 cumulative and University of Missouri (UM) GPAs. Intra-university transfers can enter Bloch School programs with a 2.25 UM GPA.

Retention Standards
Students in the bachelor of business administration (B.B.A.) or the bachelor of science in accounting (B.S. in accounting) programs are required to maintain a 2.25 cumulative University of Missouri GPA while enrolled in these programs. Students with GPAs that fall below the minimum 2.25 requirement are placed on probation and are allowed two successive semesters (including the summer semester, if enrolled) to restore their GPAs to the required 2.25. While on probation, undergraduates must achieve a 2.25 term GPA in order to enroll for the ensuing term. If a student's term GPA is below a 2.25 or, if after two successive semesters, the cumulative University of Missouri GPA is still below a 2.25, the student will be dismissed from the Bloch School. Good standing is achieved only if the GPAs are 2.25. A 2.25 average in all junior/senior in-major courses is required as well.

Graduation Requirements
All students must pass the Written English Proficiency Test (WEPT) before enrolling in MGT 301 (Effective Business Communication). Information regarding the WEPT is given in the academic calendar and can be found online at http://cas.umkc.edu/writingcenter/StudentResources/wept.asp.

The B.B.A. and B.S. in accounting degrees will be awarded on satisfaction of the following:
1. Completion of the degree requirements and a minimum of 123 credit hours.
2. Achievement of a 2.25 GPA; satisfactory academic standing is based on:
   o Cumulative GPA of 2.25 for all University of Missouri courses; and
   o GPA of 2.25 for all required junior- and senior-level, in-major courses completed at UM schools.
3. Completion of the final 30 consecutive semester hours of coursework at UMKC and 50% of junior/senior in-major courses.
4. Completion of the Written English Proficiency Test, the ETS Proficiency Profile, the Major Field Assessment Test and other assessment exercises as assigned by the Bloch faculty.
5. Filing of a required application for graduation at the beginning of the senior year.

Students are responsible for ensuring their course of study falls within program guidelines.

Academic Loads
See the General Undergraduate Academic Regulations and Information section of this catalog.
Concurrent Enrollment
For the policy on earning credit at another college concurrently with credit at UMKC, see the General Undergraduate Academic Regulations and Information section of this catalog.

Credit by Exam
Students who have received credit by exam from a previous institution must present certified scores to the UMKC Records Office. These scores must be acceptable to the department at UMKC housing the subject area. Credit by exam is not permitted after admission into the junior/senior portion of Bloch School programs. Bloch School freshmen and sophomore students should talk with an academic adviser in the Student Services Office about credit by exam restrictions.

Credit/No Credit
All undergraduate courses in the Bloch School must be taken for a letter grade, except for internship courses (496) which are taken credit/no credit.

Course Repeat Policy
When undergraduate students repeat courses, they can request to have only the grade for the final attempt used in calculating their GPA. The course repeat policy will not automatically be applied to a student’s GPA. After completing a retaken course, a student must submit a request for GPA adjustment form to his/her academic adviser.

The recalculation of a student's GPA is reflected only in the calculation of that student's current cumulative UM GPA and will not retroactively affect calculations for dean’s list, graduation and honors, eligibility for financial aid and veterans’ benefits and scholarships, athletic eligibility, discounts for insurance, or any other area.

- The GPA recalculation policy is applicable only to undergraduate students who repeat a course in which they earned a D+ or lower and in which academic dishonesty was not involved.
- Students can only replace grades if the original and the repeated course are taken at UMKC.
- Repeated courses must have been taken by Fall 2007 or later.
- Repeated courses may not be taken on a CR/NC basis.
- Original grades cannot be replaced with a 'W', 'WF', 'I', or 'T.'
- No more than 15 semester hours can be dropped from the calculation of a student's GPA by repeating course work.
- Requests approved for GPA recalculation will prefix the original grade with an 'R.' Transcripts will note that such grades are excluded from GPA calculations.

Exceptions
Exceptions to academic regulations must be approved by the Bloch School Student Services Office or the Associate Dean for Academic Affairs. To seek exceptions, students must file a formal written petition seeking an exception to academic policy with staff in the Bloch Student Services Office.
Independent Study
Students are limited to a total of six hours of Bloch School internship/independent study coursework, numbering 496 and 497. Interested students should consult with an adviser in the Bloch School Student Services Office.

Graduate Policies and Procedures

Admission Requirements
Admission to Bloch School graduate programs is based on evaluation of qualifications. Applicants to the MBA, M.S. in finance (M.S.F.), Master of Entrepreneurial Real Estate (M.E.R.E.) and M.S. in accounting (M.S.A.) programs are considered for admission based on their scores on the Graduate Management Admission Test (GMAT), undergraduate cumulative grade point averages and other criteria established by the faculty. M.E.R.E. will consider certain professional designations in lieu of the GMAT.

Applicants to the Executive MBA (EMBA), Executive M.P.A. (E.M.P.A.), and Executive M.E.R.E. (E.M.E.R.E.) programs are considered for admission based on educational record and career history, quality and length of professional and managerial experience, strength of personal interview and one written essay, two references and support of employer. A GMAT or GRE score are not required for applications to the executive programs, but may be requested by faculty. Applicants to the M.P.A. program are considered for admission on the basis of undergraduate cumulative grade point average and Graduate Record Examination (GRE) scores (verbal and quantitative sections).

Most classes are offered on weekday evenings. Selected courses may be offered in an intensive weekend format. EMBA and EMPA courses are offered on weekends (Friday/Saturday).

Retention and Graduation Requirements for Graduate Students
All students enrolled in any of the Bloch School graduate programs (MBA, EMBA, M.S.F., M.E.R.E., E.M.E.R.E., M.S.A., M.P.A. and E.M.P.A.) must maintain a minimum 3.0 grade point average (GPA) in all courses for which graduate credit is given. Students with GPAs that fall below the minimum 3.0 are placed on probation and are allowed two successive semesters (including the summer semester, if enrolled) to restore their GPAs to the required 3.0 level.

While on probation, graduates must achieve a 3.0 term GPA in order to enroll for the ensuing term. If a student's term GPA is below a 3.0 or, if after two successive semesters, the cumulative GPA is below a 3.0, the student will be dismissed from the Bloch School. Good standing is achieved only if the GPA is 3.0 or above. No course with a grade below B- (2.7), in any 300- or 400-level course, or below C (2.0) in any 5000-level course or above, will count toward any advanced degree program; however, the grade will be included in the calculation of the student's GPA. Eighty percent of the credits for the degree must be passed with a grade of B (3.0) or better.

An official program of study must be filed with the Bloch School Student Services Office once an emphasis area has been declared. For the M.P.A. program, this must occur once a student has reached 18 hours. This form constitutes a contract and must be signed by the student, faculty
adviser and department chair. Any changes to the program must be approved on a new form by the same three individuals. Students are responsible for ensuring their program of study falls within the program guidelines.

All students must file an application for graduation and program of study by the announced campus deadline during the student's last semester (students are encouraged to submit these forms earlier if possible). This application and the program of study must be filed by the announced deadline in order to obtain the degree. Both documents can be found on the Bloch School Web site at http://www.bloch.umkc.edu/current-students/student-services/forms/index.aspx.

**Transfer Credit**
Students may transfer up to 20 percent of the graduate credit hours required for their program (for the M.S. in accounting, this applies only to courses in Stage Two and is limited to six hours). Coursework must be from an accredited institution, with a grade of B or better, and appropriate to the student's program. Also, the coursework must have been taken within seven years of completion of all requirements for the degree. Credit must not be more than 7 years old at the time of graduation. Evaluation of transfer credit is done by faculty and requires documentation provided by the student.

**Course Repeat Policy**
Whenever students repeat a graduate-credit course, they must submit a course repeat form to the Bloch School Student Services Office no later than the fourth week of the term. Students seeking graduate degrees are limited to repeating no more than 20 percent of the credits applicable toward a graduate degree. If approved by the school or department or Interdisciplinary Ph.D. supervisory committee, students may repeat a course once to improve their GPA or satisfy the program requirements. The second grade received will be used to calculate the GPA that will be used in satisfying degree requirements.

**Independent Study**
Students are limited to no more than six hours of independent study/internship and no more than three hours of any one practicum, including the small business practicum. For the M.P.A. program, students are limited to a total of six hours, of which three credit hours can be an internship. Interested students should consult with an adviser in the Bloch School Student Services Office.

**Student Organizations**
**Beta Alpha Psi**
UMKC's Epsilon Delta chapter of Beta Alpha Psi, the national scholastic and professional accounting fraternity, provides opportunities for self-development and association among student members, practicing accountants and accounting faculty. Activities include technical programs presented by members and professionals, tutoring, taxpayer assistance, field trips and social events.
Beta Gamma Sigma
Beta Gamma Sigma is a national honor society for students in business administration and accounting, including students, faculty, members of the administrative staff, alumni and honorary members. Membership is by election from graduate students in the upper 20 percent of their graduating class, with a minimum 3.5 GPA, and seniors in the top 10 percent of their graduating class. Invitations are extended to qualifying students each spring.

Bloch School Student Association
The Bloch School Student Association (BSSA) is a board of directors to represent the student body on various campus and school administrative committees and sponsors a number of activities and events.

Delta Sigma Pi
Delta Sigma Pi, the nation's largest professional business fraternity, is open to students interested in all fields of business. Through professional speakers and seminars, developmental workshops and interactive social events with business leaders, faculty members and prominent alumni, the fraternity provides students an excellent opportunity to explore the business environment while still concentrating on academics.

Entrepreneurship and Innovation Club
The Entrepreneurship and Innovation Club, also known as the EI Club, is an organization for students, run by students, facilitating the growth of entrepreneurship and innovation across the entire UMKC campus and the Kansas City metropolitan area. The EI club offers seminars with renowned speakers based in the Kansas City-area, networking opportunities, and entrepreneurial and innovation advising.

Financial Management Association
The Financial Management Association UMKC Student Chapter (FMA-UMKC) is affiliated with the Financial Management Association International (FMA), a premier global leader in developing and disseminating knowledge about financial decision making for academics, practitioners and students. Our members include UMKC students as well as FMA members in the Kansas City area. We are leaders in providing financial literacy related to financial decision-making and encouraging as well as developing college students' financial interests through investment competitions, community projects, an active speaker program, corporate tours, a business career fair and newsletters. Also, we aspire to excellence as an organization.

Public Administration Student Association
The Public Administration Student Association (PASA) is made up of MPA and I.Ph.D. students who are interested in networking and socializing with students, faculty and professionals outside the classroom to enrich their experience at UMKC. PASA's purpose is to engage students academically, professionally, and socially in the study and practice of public administration.

Students in Free Enterprise
SIFE is one of the largest student organizations in the world with teams on more than 1,600 college and university campuses in the United States and in more than 40 countries throughout the world. Working together as a team, SIFE students apply their classroom experiences to
develop and implement educational outreach programs that educate individuals in their communities about the principles of market economics, success skills, environmental sustainability, entrepreneurship, financial literacy and business ethics. At the end of the year, teams present their year's efforts and compete at regional competitions, with the winners going on to national and international competitions. The UMKC SIFE team has been very successful in these competitions, winning awards and receiving national attention.

**Doctor of Philosophy**
The Bloch School participates in the Interdisciplinary Ph.D. program through the Department of Public Affairs (co-discipline in Public Affairs and Administration only) and through the Department of Global Entrepreneurship and Innovation. The Department of Global Entrepreneurship and Innovation also offers a stand-alone Ph.D. program. Information about discipline-specific admission and program requirements may be found in the School of Graduate Studies section of this catalog. Those interested in doctoral study in entrepreneurship and innovation should visit the Department of Global Entrepreneurship and Innovation website.
Master of Business Administration

The Bloch School MBA graduate will develop a professional perspective for a career in business, and will be able to:

- Define, analyze, and evaluate business decisions in a global setting through an integrated analysis using tools found in the major business disciplines.
- Effectively demonstrate critical thinking skills in inference, analysis, and evaluation.
- Demonstrate the ability to work in teams.
- Conceptualize a complex issue into a coherent written statement and/or oral presentation.
- Demonstrate mastery of fundamental quantitative tools by successfully using those tools to interpret and evaluate quantitative information and synthesize that information with relevant non-quantitative information in order to arrive at a business decision.

The Bloch School offers a master of business administration (MBA) and an executive master of business administration (EMBA). Students enrolling in the MBA program have the option of choosing among eight emphasis areas, and their programs will consist of 42 credit hours. Most MBA students attend evening courses on a part-time basis and admission is available in the fall and spring semesters. EMBA students enter a cohort-based, lockstep program that offers an integrated curriculum with the themes of leadership, strategic thinking, and innovation woven throughout the program. This full-time program meets three times per month, (one Friday/Saturday and one additional Saturday) over a 21-month period, with admission taking place in the fall.

MBA core courses stress the knowledge and skills needed to deal with an organization and its personnel. The functional courses (accounting, finance, operations, economics and marketing) develop specialized knowledge and skills. In addition, the MBA program stresses leadership, innovation and the related social and public responsibilities for those in business.

The MBA Curriculum

The MBA degree is a 42 credit hour program. The curriculum is comprised of two distinct stages: core classes and classes taken beyond the core. Previous college work in business is not required, though students with no preparation in mathematics and computer applications must complete MATH 110 and MIS 202.

All coursework is offered in the evening to accommodate students working while enrolled. Students may be admitted to the program in the fall or spring semesters. There is no admission during the summer semester.

The program has the following unique features that are combined to develop graduates that are broadly educated, socially responsible, and knowledgeable managers.

1. A 24 credit hour core curriculum that provides an integrative business foundation for decision-making.
2. An ecosystem integrated learning environment; this component is not for credit.
3. A fifteen credit hour emphasis/elective component that allows the student the flexibility to design a program that uniquely fits their needs including the option to complete 12 hours toward a specific emphasis area.
4. A three credit hour capstone experience.

The MBA Core (24 credit hours)
The MBA degree consists of a 24 credit hour core. The core must be taken by all students enrolled in the program and is designed to provide graduates with a unique educational experience. Each course in the core is 1.5 credit hours. As part of the core, each of the first two years begins with an immersion course that requires the students to meet each evening Monday-Friday and all day Saturday. The immersion course is held the week before normal classes begin. These courses allow students to work in teams and immerse themselves into an integrative business environment. Other than the two immersion courses, each core course is taught as an eight-week class. The core is designed to provide all students with a critical business foundation. Core courses should be taken in sequence and include the following:
- Management in Context (Immersion)
- Leadership in Organizations
- Financial Performance and Assessment
- Corporate Financial Management
- Introduction to Entrepreneurship
- Management Information Systems
- Managerial Economics
- Global Macroeconomics
- International Business
- Legal and Ethical Management (Immersion)
- Marketing Management
- Strategic Financial Management
- Human Capital Management
- Decision Sciences
- Operations and Supply Chain Management
- Strategic Management

Ecosystem Integrated Learning Program (noncredit)
A critical part of being a successful leader is ecosystem awareness. In addition to ecosystem integration throughout the MBA coursework, the MBA degree program has a specific ecosystem-integrated learning component. Strong technical skills are not sufficient to be an effective manager. The success of our graduates also depends on their personal and professional growth while in our program. As part of the MBA program, students are provided with a number of weekend seminars, workshops, and professional experiences designed to offer opportunities that enhance their professional and personal capabilities. Students may attend as many of the programs as they want; however, they are required to earn a minimum of 12 contact hours spread over at least 3 events during the program. Examples of programs include:
- Business Plan Competition
- Business Writing Do's and Don'ts
- Excel Tips and Tricks
Students can earn hours toward the Ecosystem Integrated Learning Program through employer-sponsored training as well. Students should contact the MBA Program Director upon attending such training in order to receive credit.

Students can also earn up to 4 hours through leadership involvement in community service activities. To receive credit for such involvement, contact the MBA Program Director.

**Electives (15 credit hours)**

To complete for-credit course requirements for the degree, students take 15 credit hours of electives. Normally, these electives are selected from among graduate-level courses offered by the Bloch School. These courses should be selected according to the student's needs and interests. Students have the option of taking 12 credit hours in a single area to complete an emphasis area. Available emphasis areas are described below.

**Capstone Course (3 credit hours)**

After finishing the core, students are required to take a real-world problem solving capstone course. This requirement is designed to challenge the student to resolve an integrative issue. Students are allowed to select from specific classes providing different types of faculty/business leader supervised experiences. Students may take more than one capstone course, using the additional course as an elective.

Actual capstone course offerings will vary from semester to semester, but will be announced in advance to facilitate students' planning. Capstone courses may be taken no earlier than the final core course (Strategic Management). Students must take one of the 3 credit hour courses listed blow.

- Business Plan for a Startup Company
- Global Management Consultancy
- Leading and Managing Change
- The Capstone Consulting Project
- Developing and Maintaining a Customer Centric Organization Culture

**Emphasis Areas**

The MBA program allows students the flexibility of using 15 credit hours to meet their unique needs. Electives may be used to obtain a business emphasis or specialization. An emphasis requires 12 credit hours. To focus your education and develop your expertise in specific areas for your career, the Bloch School offers the following eight emphasis areas (all are 12 credit hours):

- Entrepreneurship
- Finance
• General Management
• Global Business
• Leading and Managing People
• Management Information Systems
• Marketing
• Supply Chain & Operations Management

Please note that only 12 credit hours from any one emphasis area can be counted toward the degree program. Students are not required to complete an emphasis area. Each emphasis area is comprised of 12 hours. No more than 12 hours from any one area (beyond the core) can be used toward the MBA.

Students can, with the consent of appropriate faculty, select any other Bloch courses that might fit within the emphasis areas listed below (courses outside the Bloch School require special approval). Students are strongly encouraged to work closely with an adviser in planning their programs so that the courses they choose will be of interest and benefit to them while fulfilling the requirements of the degree. Not all classes are offered each semester. Emphasis areas follow.

**Entrepreneurship**
Four courses selected from the following:

- ENT 5515 Entrepreneurship & Innovation Boot Camp
- ENT 5525 Entrepreneurship: Managing Creativity and Innovation
- ENT 5535 Small Business Management and Entrepreneurship
- ENT 5541 Personal Entrepreneurial Strategy
- ENT 5542 Technology & New Ventures I
- ENT 5543 Technology & New Ventures II
- ENT 5545 Entrepreneurship and New Venture Creation
- ENT 5571 *Advanced Real Estate Planning
- ENT 5573 *Real Estate Market Analysis Feasibility Study
- ENT 5576 *Real Estate Property Management
- ENT 5578 *Legal Context of Real Estate Decision Making
- ENT 5585 Venture Capital Finance and Investment
- ENT 5587 Seminar in Entrepreneurship
- ENT 5591 Small Business Management Practicum
- ENT 5597 Independent Research in Entrepreneurship
- Or any other course approved by Entrepreneurship faculty.

*Only two of these courses can count in the Entrepreneurship emphasis area.*

*Entrepreneurship with a Real Estate Concentration*

Required

- ENT 5515 Entrepreneurship & Innovation Boot Camp
- ENT 5545 Entrepreneurship & New Venture Creation

Plus any two classes (6 hours) selected from the following:

- ENT 5571 Advanced Real Estate Finance
- ENT 5573 Real Estate Market Analysis Feasibility Study
- ENT 5576 Real Estate Property Management
- ENT 5578 Legal Context of Real Estate Decision Making

*Note: The Real Estate Concentration does not appear on the diploma or transcript.*

**Finance**

Required
- FIN 5550 Advanced Financial Management Theory and Policies

Plus nine hours selected from the following:
- FIN 5551 International Financial Management
- FIN 5552 Global Financial Markets and Institutions
- FIN 5553 Investment Analysis
- FIN 5556 Management of Financial Intermediaries
- FIN 5557 Derivative Securities
- FIN 5559 Strategic Financial Management
- FIN 5560 Financial Modeling
- FIN 5561 Financial Statement Analysis
- FIN 5562 Fixed Income Analysis
- FIN 5563 Valuation/Mergers and Acquisitions
- FIN 5564 Portfolio Management
- FIN 5565 Alternative Investments
- FIN 5582 Seminar in Finance
- RL-EST 5571 *Advanced Real Estate Finance*
- RL-EST 5573 *Real Estate Market Analysis and Feasibility Study*

*Students may use only one real estate course for credit in the Finance emphasis.*

**General Management**

At least one course from four of the five areas:
- **Entrepreneurship:** see emphasis area listing
- **Global Business:** see emphasis area listing
- **Law & Society:** MGT 5506, MGT 5508
- **Leading and Managing People:** see emphasis area listing
- **Strategy & Planning:** MGT 5513

**Global Business**

Required:
- MGT 5545 International Management

Four courses selected from the following:
- DSOM 5544 Global Supply Chain and Logistics Management
- FIN 5551 International Financial Management
- FIN 5552 Global Financial Markets and Institutions
- MGT 5546 Seminar in International Management
- MGT 5552 International Study in Business
• MKT 5555 International Marketing

**Leading and Managing People**

Twelve hours selected from the following:

- MGT 5516 Leading Teams
- MGT 5517 Leading Through Influence and Persuasion
- MGT 5518 Leadership and Motivation
- MGT 5519 Conflict Management and Negotiation Strategies
- MGT 5520 Strategic Benefits Management (1.5 credit hours)
- MGT 5521 Building Human Capital (1.5 credit hours)
- MGT 5533 Leadership and Change in Organizations
- MGT 5560 Strategic Human Resources
- MGT 5566 Strategic Staffing (1.5 credit hours)
- MGT 5567 Total Rewards Management (1.5 credit hours)
- PUB-ADM 5548 Leadership for Public Service

**Management of Information Systems**

Four courses selected from the following:

- ACCTNG 5565 Advanced Accounting Systems
- ACCTNG 5567 Information Systems Control and Audit
- MIS 5529 Decision Support & Expert Systems
- MIS 5552 Data Base Management
- MIS 5554 Systems Analysis, Design and Engineering
- MIS 5558 Management and Economics of Computing
- MIS 5580 Seminar in Information Systems

Additional elective courses may be selected from the following:

- DSOM 5542 ERP - Enterprise Resource Planning Systems
- DSOM 5543 Project Management

**Marketing**

Required:

- MKT 5575 Advanced Marketing Strategy

Plus nine hours selected from the following:

- MKT 5539 Management in Direct Marketing
- MKT 5560 Buyer Behavior
- MKT 5561 Promotional Strategies in Marketing
- MKT 5562 Marketing Research
- MKT 5555 International Marketing

Additional elective courses may be selected from the following:

- MIS 5552 Data Base Management
- DSOM 5514 Forecasting Theory and Applications

**Supply Chain and Operations Management**

Required:

- DSOM 5540 Service Operations Management
- DSOM 5542 ERP - Enterprise Resource Planning Systems
- DSOM 5543 Project Management
- DSOM 5544 Global Supply Chain and Logistics Management

Note: Students should ensure that prerequisites are taken in the proper sequence.

**Executive MBA Program**
http://www.bloch.umkc.edu/graduate/emba/index.aspx

The Bloch Executive MBA (EMBA) is a highly-selective degree program for experienced professionals. The program offers a comprehensive integrated curriculum, field experiences, and four residencies. It is distinguished by an emphasis on cohort-learning, teamwork, hands-on projects, leadership coaching and development, and learning activities that contribute substantial value to participants, employers, and the larger community.

Students are admitted each year to a new EMBA cohort through a special application process. Students begin coursework in mid-August, and program completion requires 21 months. The program is composed of 16 semester-long, graduate-level courses and of four week-long immersion residencies that are focused on leadership, innovation, public policy, and the global marketplace. A variety of teaching formats are employed, including case studies, group projects, simulations and role playing, fieldwork, interactive discussions, and renowned guest lecturers.

Daylong classes meet three days per month (one Friday/Saturday and one additional Saturday). Classes do not meet in June and July. To ensure that all students are up to speed on academic and business basics, the program starts with required self-paced tutorials in key subject areas, such as finance, accounting, and statistics.

**Student Learning Outcomes**

Graduates of the Bloch School’s EMBA program will gain the business knowledge skills needed to excel as executives, entrepreneurs, and leaders. The EMBA graduate will:

- Define, analyze and evaluate decisions through an integrated analysis by using tools from the major business disciplines.
- Devise solutions for a variety of business problems and issues by using cohesive and logical reasoning patterns.
- Conceptualize a complex issue into a coherent written statement and oral presentation.
- Develop capacities to participate effectively in teams and exert effective team leadership.
- Have exposure to public sector leaders and processes and learn to work effectively in public policy teams to understand the forces and personalities that shape and impact American business policy.
- Integrate leadership theories and insights from coursework and apply these to complex leadership scenarios.
- Show greater awareness of their own leadership strengths and areas for development and commitment to engage in the lifelong process of taking action to strengthen their leadership competencies.

**Admissions Requirements**
The EMBA is designed for experienced professionals who typically possess a minimum of 8 years of work experience with growing responsibilities for managing people, projects, and/or
budgets. Admissions decisions are based on a combination of a solid academic record, demonstrated professional achievement, and evidence of a strong commitment to learning and to career and professional development. Further information on the Bloch EMBA program is available at (816) 235-2370 or at the program's web site http://www.bloch.umkc.edu/graduate/emba/index.aspx.

The Curriculum

Leadership Residency introduces students to fundamentals of business, organizational behavior, leadership, and teamwork.

Semester 1
- **Leadership and Organizations** focuses on how organizations work and how leaders can set direction, marshal resources, and build support to move initiatives forward.
- **Managerial Economics** studies the relationship between the economic theory and system as a whole and the ways in which both are affected by the behavior of the interdependent sectors of which they are composed.
- **Marketing Management** examines the role of marketing in driving profitable revenue growth in companies.
- **Financial Reporting Systems** introduces generally accepted accounting principles and concepts along with the preparation and analysis of financial statements.

Semester 2
- **Organizational Finance** gives students a thorough introduction to financial management that blends appropriate amounts of relevant theory with practical application.
- **Influence, Persuasion and Change** presents ideas, strategies and tools for leading change in complex organizations and for defining an ethical approach to leading, influencing, and persuading others.
- **Public Policy Context for Business Decisions** provides intensive exposure to the forces, practices, and personalities in Washington that shape America's business policy. The course includes the required 5 day *Washington, D.C. Residency* to expand student understandings of the role of social leadership in the development of business policies, practices and processes.
- **Applied Statistical Methods** investigates the use of detailed sample data for purposes of estimating, predicting, forecasting, and explaining correlations among varied observations.

Innovation Residency
- **Entrepreneurship and Innovation Immersion** is a 5-day, required, off-campus residency that gives students grounded understanding of how to identify and evaluate business opportunities. An engaging, true-to-life business simulation serves as an evolving "case" where students experience the opportunities and challenges in the day-to-day decisions and competitive worlds of the entrepreneur and of the general manager.
Semester 3

- **Leadership Accountability and the Legal Implications** highlights the full meaning of leadership accountability and of the legal challenges leaders face in a rapidly changing global world.
- **Strategic Management** examines the principles essential for the formulation and evaluation of strategy including industry analysis, strategic positioning, and the boundaries of the firm. The course also addresses the capacity of executive leadership to innovate and to create new or added values, as well as their responsibility for developing and communicating a clear vision and direction for a company's future.
- **Operations Management for World Class Competitiveness** explores the basic principles and strategic use of managing the production and distribution of goods and services.
- **Information Technology as a Strategic Tool** examines the critical linkage among an organization's business, culture, and information technology strategies and provides essential knowledge and frameworks for enhancing the IT role in innovation, change, and continuous organizational learning.

Semester 4

- **Leadership, Strategy and Human Resources** focuses on the leader as a catalyst in developing high-performance, market-based cultures and as a human resources strategist in marshalling the workforce toward productive ends.
- **Global Initiatives in Management** explores key, contemporary international business issues for leaders and for organizations in today's global economy and includes a required, 11 day, international residency experience in a major business center abroad.
- **Integrated Business Strategies - Capstone Course** explores critical factors involved in effective decision making, in organizational governance, and in developing the broad enterprise leadership perspective needed for effective executive planning and action.

The fourth course in the final semester is a student’s choice from among two electives:

- **Innovation and Entrepreneurship** explores the creative, entrepreneurial, and managerial processes involved in moving from a concept to the development of a new business and provides students hands-on opportunities to convert a dream into a high-growth business. **-or-**
- **Advanced Topics in Finance** builds on the previous finance course in the program and delves deeper into topics such as valuation, enterprise risk management, securities and investments, regulatory frameworks, and corporate governance.

**Combined J.D./MBA Program**
The Bloch School and UMKC School of Law offer the combined J.D. and MBA program. Students must satisfy the admission and degree requirements for each school. For further information, contact the School of Law or consult the Bloch School Web site at http://www.bloch.umkc.edu/graduate/mba/jd-mba-joint-program/index.aspx.
Master of Entrepreneurial Real Estate

Graduates of the Master of Entrepreneurial Real Estate degree program will:

- Have an understanding of advanced real estate investment theories and methods from ownership issues, financing commercial real estate and analyzing a commercial real estate investment through the after tax cash flow model for real estate analysis.
- Have an understanding of practical and successful techniques for a proactive approach to managing, marketing and leasing commercial properties.
- Have an advanced working knowledge of the essential steps in conducting a market analysis that will enable the student to obtain relevant data from the market and utilize the various metrics to measure the supply and demand for a particular type of real estate use.
- Have an understanding of key business and legal concepts in architectural and general construction contract negotiations; issues in buying, leasing and selling properties including due diligence, representations and default concepts; brokerage agreements; governmental issues, including zoning, entitlements and condemnation.

The master of entrepreneurial real estate (MERE) is designed for students interested in all aspects of real estate who have decided their career paths require an advanced level of knowledge. The Lewis White Real Estate Center works in partnership with the Bloch School of Management’s Institute for Entrepreneurship and Innovation which provides a global and entrepreneurial focus to the program.

The MERE program fulfills a vital need for graduate real estate education not offered by any university in the region. Enabling real estate entrepreneurs to keep up with today's ever-changing environment, the program addresses real estate trends such as the global shift in attitude towards eco-friendly developments, reducing carbon footprints and the expansion of green technology in new construction. The knowledge gained will allow participants to make real estate decisions that require mastery of complex, interdisciplinary skills and an ability to manage teams of professionals with expertise in various fields.

Curriculum

The MERE is a 36-credit hour program that is offered over a 2-year period, with students taking 3-6 hours each semester. Core courses include the following:

- Urban Planning
- Entrepreneurial Real Estate
- Legal Contexts of Real Estate Decisions
- Market Analysis and Feasibility Studies
- Advanced Real Estate Finance
- Property Management
- Valuation
- Capital Markets
- Corporate Real Estate
- Construction Means and Methods
- Real Estate Taxation
International Real Estate

**Executive MERE**
The executive format of the MERE is an accelerated program designed for experienced real estate professionals who have a minimum of five years of experience in a real estate or related field and is tailored to reflect the student's level of real estate industry experience. This is a 14-month program with instruction by Ph.D,’s, attorneys, CCIM instructors and local experts in specialized areas. One week of international travel is included where the class will be introduced to real estate professionals in other countries in order to build their international networks while learning about global real estate issues.

**Master of Public Administration**
Graduates of the Master of Public Administration have the knowledge and skills necessary to effectively and ethically lead and manage dynamic public service organizations. Specifically, the students will:
- Engage in sophisticated decision making, grounded in disciplined analytical and critical thought, to effectively address the long term needs and interests of communities, organizations, and their stakeholders.
- Understand the process as well as content dimensions of problem analysis and resolution and make effective use of state-of-the-art administrative and management practices and methods, including the effective use of technology.
- Communicate effectively, verbally and in writing.
- Exhibit competence in understanding and addressing the ethical dimensions of public service leadership and management.
- Understand the wide variation that exists in the principles, cultures, and practices of organizations and communities from different parts of the world, and the implications of this variation for effective public service leadership.
- Understand the value of diversity and inclusion and exhibit competence in ethical, effective, culturally competent leadership and management.
- Demonstrate self-confidence and capacity to deal with dynamics, complex, and ambiguous community problems and issues.
- Have the capacity to work effectively in collaboration with others through teams, alliances, and networks to achieve results.

Public service offers a career filled with excitement, challenge, and significance. Opportunities are numerous, ranging from positions in local, state, national and international agencies to those in health institutions and nonprofit organizations. There has never been a greater opportunity for public service leaders and executives who can apply their knowledge and skills to solving the most important leadership and community challenges facing these organizations in an increasingly complex and changing world. The master of public administration degree program is offered through the Department of Public Affairs.
The Curriculum
The M.P.A. degree will be awarded on completion of 36 semester hours, consisting of 21 hours of required core courses, 9 to 12 hours in a selected emphasis area and up to 6 hours of electives. An internship is recommended for any student without substantial work experience in public, nonprofit or health administration. Individual courses may be waived if a student presents evidence of adequate undergraduate study, but other courses for graduate credit must be substituted to meet the minimum of 36 hours. Note: Students who repeat courses that have been waived from their program may not count the repeated course toward their degree.

Core Curriculum (21 hours)
The following courses are required for each student:
- PUB-ADM 5510 Research Methods in Public Administration
- PUB-ADM 5526 The Politics of Administration
- PUB-ADM 5548 Leadership for Public Service
- MGT 5513 Economic Policy and Managerial Control
  -or-
  - FIN 5501 Economics for Administration
- PUB-ADM 5525 Financial Accountability and Policy Development
- PUB-ADM 5544 Program Evaluation and Analysis
- PUB-ADM 5530 Capstone Seminar in Public Administration

Students selecting the health services administration emphasis have the following core requirements:

- PUB-ADM 5510 Research Methods in Public Administration
- PUB-ADM 5526 The Politics of Administration
- PUB-ADM 5548 Leadership for Public Service
- HLTH-ADM 5580 Economics of Health and Medicine
  -or-
  - MGT 5513
  -or-
  - FIN 5501
- HLTH-ADM 5571 Financial Management Issues: Health & Human Services Organizations
  -or-
  - PUB-ADM 5525
- HLTH-ADM 5578 The Evaluation and Control of Health Services
  -or-
  - PUB-ADM 5544
- PUB-ADM 5530 Capstone Seminar in Public Administration

Electives (Up to 6 hours)
Elective courses may be selected from public administration, including courses in the student's chosen emphasis area. Courses may also be selected from political science, economics, psychology, sociology, as well as from other graduate fields with approval of the faculty adviser.
**Emphasis Areas (9-12 hours)**

Students seeking the master of public administration degree may specialize in three emphasis areas:

- Health Services Administration
- Nonprofit Management
- Urban Administration

A student may also tailor a general or specific program in order to meet individual talents, needs or job requirements. Such a program must be developed in consultation with a faculty adviser. Each course is worth three credits unless otherwise noted.

**Health Services Administration (9 hours)**

- HLTH-ADM 5571 Financial Management Issues in Health and Human Service Organizations
- HLTH-ADM 5577 Health Service Administration and the Health Professions
- HLTH-ADM 5578 The Evaluation and Control of Health Services
- HLTH-ADM 5580 Economics of Health and Medicine
- HLTH-ADM 5581 Health Policy in the United States
- HLTH-ADM 5586 Supervised Research in Health Services Administration (independent study or internship)

**Nonprofit Management (12 hours)**

- PUB-ADM 455 Nonprofit Leadership Issues (1 hour)
- PUB-ADM 495 Volunteerism, Philanthropy and the Nonprofit Sector in the United States (1 hour)
- PUB-ADM 5551 Strategic Management in Nonprofit Organizations
- PUB-ADM 5552 Community Organizations and Public Policy
- PUB-ADM 5553 Legal Framework and Financial Management in Nonprofit Organizations
- PUB-ADM 5555 Topics in Nonprofit Fundraising (1-2 hours each)
- PUB-ADM 5556 Innovation in Nonprofit Management and Leadership
- PUB-ADM 5585 Seminar: Social Entrepreneurship (1-3 hours)
- PUB-ADM 5598A Supervised Research in Nonprofit Management
- HLTH-ADM 5571 Financial Management Issues in Health and Human Service Organizations

Students choosing the nonprofit emphasis should choose **at least six** of their twelve emphasis area credit hours from among the following courses: PUB-ADM 495, PUB-ADM 5551, PUB-ADM 5552, PUB-ADM 5553, and PUB-ADM 5556.

**Urban Administration (9 hours)**

Required:

- PUB-ADM 5535 Urban Policy and Administration

Two courses selected from the following:

- PUB-ADM 5536 Managing Urban Economic Development
- PUB-ADM 5538 Comparative Urban Administration
• PUB-ADM 5539 Urban and Regional Planning for Urban Administrators
• PUB-ADM 5552 Community Organizations and Public Policy
• PUB-ADM 5565 Topics in Community Economic Development (1 credit hour each)
• PUB-ADM 5581 Seminar in Urban Administration
• PUB-ADM 5595 Internship*

* Students choosing the urban administration emphasis are allowed no more than three hours of internship to fulfill the emphasis area. Additional internship hours will count as electives.

Note: Students should ensure that prerequisites are taken in the proper sequence.

The Executive M.P.A. Program
Students with at least five years of increasingly-responsible career and leadership experience may apply for the Executive M.P.A. degree program. This 23-month cohort program is designed to prepare high-potential professionals and managers for executive and community leadership roles in government, nonprofit and health care organizations. The EMPA curriculum includes a number of unique learning and professional development experiences and resources, including executive coaching, immersion courses, and issue-oriented residencies in locations such as Washington D.C. and Cape Town, South Africa. For more information about this option, please visit www.umkc.edu/empa.

The B.A. (Urban Affairs)/M.P.A. Program
Students obtaining a B.A. in Urban Affairs in the College of Arts and Sciences may pursue early admission to the master's degree program in public administration and obtain a master's degree in one additional year. The program allows students to utilize some of the M.P.A. courses to satisfy urban affairs requirements, thereby reducing the number of courses needed to complete both degrees. Contact the Bloch School Student Services Office for more information on this program option.

The B.B.A./M.P.A. Program
Students completing the bachelor of business administration may complete their M.P.A. degree in one additional year at UMKC (three semesters) if they meet entrance requirements for the public administration graduate program. For more information about this option, contact the Bloch School Student Services Office.

Combined J.D./M.P.A. Program
The Bloch School and the UMKC School of Law offer a combined J.D. and M.P.A. program. Students must satisfy the admission and degree requirements for each school. Students fully admitted to the School of Law are exempt from the GRE requirement for admission to the M.P.A. program. For further information, contact the School of Law or consult the Bloch School Web site at http://www.bloch.umkc.edu/graduate/mpa/jd-mpa-joint-program/index.aspx.
**Master of Science in Accounting**

Graduates of the Master of Science in Accounting degree program will:
- Meet the Missouri statutory educational requirements to sit for the Uniform CPA exam.
- Define, analyze and devise solutions for structured and unstructured problems and issues by using cohesive and logical reasoning patterns for evaluating information, materials, and data.
- Recognize and analyze ethical problems and choose and defend resolutions for practical situations that occur in accounting in accordance with the accountant's professional responsibility.
- Conceptualize a complex issue into a coherent written statement and oral presentation.

**The Curriculum**

The master of science in accounting program encompasses advanced analysis in a variety of areas. The total hours required are dependent on the focus of the student's undergraduate coursework. Students may be exempt from certain course requirements based on prior business and accounting coursework and grades earned, with exemptions determined at the time of initial advising and enrollment. Students with no preparation in mathematics and computer applications must complete MATH 110 and MIS 202. **Note:** Students who repeat courses that have been waived from their program may not count the repeated course for credit toward their degree.

**M.S. in Accounting - Non-Accounting Undergraduates**

This program is designed for students with little or no undergraduate accounting coursework. It provides comprehensive coverage of accounting topics necessary for a professional career in the field. Completion of the program also qualifies students for the various examinations leading to professional certification. Stage One identifies prerequisite accounting and business courses that provide the foundation for the Stage Two courses required for the M.S. in accounting degree. Stage One courses may be waived based on equivalent undergraduate coursework taken as part of a bachelor of business administration degree from UMKC or equivalent program. This program is outlined below.

**Stage One**

- ACCTNG 5556 Cost Management
- ACCTNG 5558 Financial Accounting Theory
- ACCTNG 5550 Accounting Systems and Controls
- ACCTNG 5517 Survey of Accounting
- DSOM 5505 Decision Sciences
- DSOM 5507 Operations/Supply Chain Management
- FIN 325 Financial Management
- FIN 5504 Managerial Economics
- FIN 5505 Global Macroeconomics
- Business Law Course
- MKT 5501 Marketing Management
- ENT 5502 Introduction to Entrepreneurship **OR** MGT 5509 Strategic Management
- Pick two of the following: MGT 5501, MGT 5502 and MGT 5507
Stage Two
(30 credit hours beyond Stage One)
- ACCTNG 311 Intermediate Accounting II
- ACCTNG 409 Advanced Taxation
  -or-
  ACCTNG 5557 Introduction to Income Taxation (see advisor to determine which course best fits in your degree program)
- ACCTNG 421 Governmental/Not-for-Profit Accounting
- ACCTNG 5559 Advanced Financial Accounting Theory
- ACCTNG 5560 Introduction to Auditing
- ACCTNG 5560 (or higher) level course in Managerial Accounting
- ACCTNG 5560 (or higher) level course in Financial Accounting
- ACCTNG 5560 (or higher) level course in Auditing
- ACCTNG 5570 (or higher) level course in Tax
- Approved Accounting elective, 5561 or higher

M.S. in Accounting - Accounting Undergraduate
Students with an undergraduate degree in accounting may complete the M.S. in accounting program in a minimum of 30 semester hours. Examples of focus areas which students may select follow:

Accounting/Audit Focus (30 hours)
ACCTNG 5560 (or higher) level in managerial accounting, tax, auditing, and financial accounting (12 hours)
Approved electives in audit or financial accounting (6 hours)
Approved electives (up to 12 hours)

Taxation Focus (30 hours)
ACCTNG 5571, ACCTNG 5572, ACCTNG 5573, ACCTNG 5574, ACCTNG 5576 (15 hours)
ACCTNG 5560 (or higher) level in financial accounting, managerial accounting and audit (9 hours)
Approved electives (6 hours)
Note: Students should ensure that prerequisites are taken in the proper sequence.
Master of Science in Finance
The Bloch School M.S.F. graduate will

- Analyze financial statements.
- Utilize financial statement information to make investment decisions.
- Value business entities (both public and private).
- Utilize financial modeling techniques to reach financial decisions.
- Understand the interconnectivity of global financial markets.
- Understand how to manage risks.
- Understand how to utilize various asset classes to achieve portfolio objectives.
- Understand how to value a variety of financial securities.

The master of science in finance (M.S.F.) is for students and executives seeking specialized training in finance in preparation for financial certifications such as the Chartered Financial Analyst (CFA) and Certified Financial Planner (CFP), as well as for acquiring career advancement skills in a variety of financial fields.

Our nationally and globally diverse faculty is comprised of experienced educators and recognized scholars who combine theory with practice to provide a balanced learning experience.

The Curriculum
The M.S.F. is a 33 hour program and courses are offered in fall, spring, summer and intersessions. Students entering the program must meet prerequisites in accounting, economics, finance and statistics. Courses are offered in the evening and students can pursue the degree part-time or full-time.

Course Content
Course content in the M.S.F. includes the following:

- Financial Management
- Valuation/Mergers and Acquisitions
- Financial Statement Analysis
- Financial Modeling
- Portfolio Management
- Financial Services Management
- International Finance
- Investments
- Alternative Investments
- Global Financial Markets and Institutions
- Derivative Securities
- Fixed Income

Designated electives can be chosen from accounting, marketing, entrepreneurship, human resources, management information systems, computer science, math, statistics, economics, law and other related disciplines.
Undergraduate General Education Requirements for The Bloch School

General Education Requirements
The following courses (Preparatory and Basic Skills Requirements) should be completed prior to entering the junior/senior portion of the bachelor of business administration (B.B.A.) and bachelor of science in accounting (B.S. in accounting) programs. These courses should be taken during the freshman and sophomore years. Differences in requirements between the two undergraduate programs are noted.

Preparatory and Basic Skills Requirements

Humanities (12 hours)
COMM-ST 110  Fund. of Eff. Speaking & Listening  3
ENGLISH 110  English I: introduction to Academic Prose  3
ENGLISH 225  Intermediate Academic Prose  3
PHILOS 210  Foundations of Philosophy or classroom-based Foreign Language  3
(AP, CLEP, & department credit by exam accepted)

Natural Sciences (8 hours)
Students may choose courses from astronomy, biology, chemistry, earth science, environmental science, geology, physical geography, physical science and physics. A laboratory component is required.

Social Sciences (6 hours)
Courses may be selected from American studies, anthropology, criminal justice and criminology, geography, history, political science, psychology and sociology. As part of the six hours, and as required by state law, all students must study the United States and Missouri constitutions.

Fine Arts (3 hours)
Students may select a course from art, art history, conservatory or theater.

Basic Skills (27)
ACCTNG 210 / ACCTNG 210L  Introduction to Financial Accounting  3
ACCTNG 211  Introduction to Managerial Accounting  3
MIS 202  Computer Applications in Management  3
ECON 201  Introduction to Economics I  3
ECON 202  Introduction to Economics II  3
MATH 110  College Algebra  3
MATH 206  Brief Calculus and Matrix Algebra  3
STAT 235  Elementary Statistics  3
* MGT 301  Effective Business Communication  3
* MGT 301 counts as part of the in-major GPA
General Education Requirements for Students Transferring from Other Missouri Institutions with a Certified 42-Hour Core Curriculum

Students transferring into the Bloch School of Management with a certified 42-hour block of general education credit from another Missouri institution must complete additional coursework for baccalaureate degrees from the Bloch School. These courses include:

- ACCTNG 210 / ACCTNG 210L: Introduction to Financial Accounting 3
- ACCTNG 211: Introduction to Managerial Accounting 3
- MIS 202: Computer Applications in Management 3
- ECON 201: Introduction to Economics I 3
- ECON 202: Introduction to Economics II 3
- MATH 110: College Algebra 3
- MATH 206: Brief Calculus and Matrix Algebra 3
- STAT 235: Elementary Statistics 3
- * MGT 301: Effective Business Communication 3

Written English Proficiency Test (WEPT)

The preceding requirements can be satisfied by equivalent courses from other institutions. Additionally, some of the courses may satisfy general education requirements in the 42-hour core. Check with individual institutions for more information.

UMKC's 42-Credit Hour Certified General Education Core for Students Transferring to Another Missouri Institution

Bloch School students wishing to complete the 42-hour core should also consult with an academic adviser in the Student Services Office, room 115 of the Bloch School.

Bachelor of Business Administration

Upon graduation from the B.B.A. program, a student will be able to:

- Demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business.
- Define, analyze and devise solutions for structured and unstructured business problems and issues by using cohesive and logical reasoning patterns for evaluating information, materials and data.
- Conceptualize a complex issue into a coherent written statement and oral presentation.
- Exhibit competence in the uses of technology in modern organizational operations.
• Demonstrate the fundamentals of creating and managing innovation, new business development and high-growth potential entities.

Courses for the B.B.A. program are listed below. All students must complete the core curriculum and choose one of four emphasis areas:
• Enterprise Management
• Entrepreneurship
• Finance
• Marketing

Prior to enrolling in any course, students must ensure they have completed the necessary prerequisites. Seniors in the B.B.A. program may begin work on the MBA degree if pre-approved by the Bloch School based on their formal application to the MBA program.

Core B.B.A. Curriculum (36 hours)
• DSOM 309 Intermediate Business Statistics
• DSOM 326 Production/Operations Management
• ECON 302 Microeconomic Analysis
• ENT 460 Creating the Enterprise
• FIN 325 Financial Management
• MGT 306 Legal, Ethical and Regulatory Environment of Business
• MGT 330 Understanding the Individual in the Organization
• MGT 355 Organizational Effectiveness and Leadership
• MGT 370 International Management
  - or -
  MGT 470 International Study in Business
• MGT 471 Strategic Management
• MIS 402 Information Management
• MKT 324 Marketing Concepts

General Electives (16 hours)
A maximum of two hours of PE activity is accepted as elective credit. Applied or military science and vocational courses may not be taken for elective credit.

Emphasis Areas (15 hours)

Enterprise Management
Required Courses
• DSOM 346 Management Analysis
• MGT 337 Managing Human Capital

Plus three courses selected from the following:
• DSOM 431 Quality and Process Improvement
• ENT 364 Entrepreneurial Management
• FIN 419 Financial Statement Analysis
- *MGT 470 International Study in Business  
  -or-  
  *MGT 370 International Management  
- MIS 415 Managing the Information Systems Resource  
- MKT 348 Market Analysis  

*The course taken to meet the Business Core requirement may not count toward the required electives in Enterprise Management*

**Entrepreneurship**  
**Required Courses**  
- ENT 215 Introduction to Entrepreneurship (also listed as ENT 315)  
  -or-  
  ENT 201 Entrepreneurship Immersion (also listed as ENT 301)  
- ENT 327 Creating the New Venture: Experiential Learning  
  -or-  
  ENT 328 Creating the E-Business: Experiential Learning  
- ENT 332 Managing the New Venture: Experiential Learning  

In addition, students must select two of the following electives:  
- ENT 321 Real Estate Principles  
- ENT 341 Technology Entrepreneurship  
- ENT 361 New Product Development  
- ENT 364 Entrepreneurial Management  
- ENT 412 Entrepreneurial Finance and Venture Capital Investment  
- ENT 421 Real Estate Finance Fundamentals  
- ENT 425 Corporate Entrepreneurship  
- ENT 432 Entrepreneurial Marketing and Selling  
- ENT 446 Entrepreneurial Selling and Sales Force Management  
- ENT 491 Entrepreneurial Consulting  

Students in the Entrepreneurship emphasis replace the Bloch School capstone course, ENT 460, with a 300- or 400-level Bloch School elective.

*Entrepreneurship with a Real Estate Concentration*  
**Required Courses**  
- ENT 215 Introduction to Entrepreneurship (also listed as ENT 315)  
  -or-  
  ENT 201 Entrepreneurship Immersion (also listed as ENT 301)  
- ENT 327 Creating the New Venture: Experiential Learning  
  -or-  
  ENT 328 Creating the E-Business: Experiential Learning  
- ENT 332 Managing the New Venture: Experiential Learning  
- ENT 321 Real Estate Principles  
- ENT 421 Real Estate Finance Fundamentals  

*Note: The Real Estate concentration does not appear on the diploma or transcript.*
Finance
Required Courses
- FIN 340 Global Financial Markets and Institutions
- FIN 345 Investments
- FIN 435 Advanced Corporate Finance
Plus two courses selected from the following:
- FIN 419 Financial Statement Analysis
- FIN 427 Debt Instruments and Markets
- FIN 428 Commercial Bank Management
- *ENT 412 Entrepreneurial Finance and Venture Capital Investment
- *RL-EST 321 Real Estate Principles
- *RL-EST 421 Real Estate Finance Fundamentals
*Note: Only one of these courses can be used in the Finance emphasis.

Marketing
Required Courses
- MKT 335 Consumer Behavior
- MKT 348 Market Analysis
- MKT 480 Marketing Strategy
Plus two courses selected from the following:
- ENT 361 New Product Development
- MKT 418 Sales and Promotion Strategies
- MKT 442 Internet/Direct Marketing
- MKT 476 Services Marketing

Note: Students should ensure that prerequisites are taken in the proper sequence.

Bachelor of Science in Accounting

Upon graduation from the B.S. in accounting program, a student will be able to:
- Demonstrate entry-level technical competence in financial accounting, taxation, cost/managerial and auditing. The competency level is not sufficient to meet the technical requirements for professional certification but will serve as the technical foundation for graduate education.
- Demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business.
- Define, analyze and devise solutions for structured and unstructured business problems and issues by using cohesive and logical reasoning patterns for evaluating information, materials and data.
- Recognize and apply the AICPA code of professional conduct to ethical problems that occur in accounting practice.
- Conceptualize a complex issue into a coherent written statement and oral presentation.
• Exhibit competence in the uses of technology in modern organizational operations.
• Demonstrate the fundamentals of creating and managing innovation, new business development and high-growth potential entities.

Upon graduation from the B.S. in accounting program, a student will have the skill set and professional mindset needed to perform in entry-level financial accounting, taxation, cost management and auditing positions.

**Sophomore Year - Second Semester**
ACCTNG 211  Introduction to Managerial Accounting
ACCTNG 310  Intermediate Accounting I

**Junior Year - First Semester**
ACCTNG 307  Cost Management
ACCTNG 350  Accounting Systems and Controls
DSOM 309  Intermediate Business Statistics
Economics Elective (ECON 301, ECON 302 or ECON 331)

**Junior Year - Second Semester**
ACCTNG 311  Intermediate Accounting II
MKT 324  Marketing Concepts
DSOM 326  Production/Operations Management
MGT 330  Understanding the Individual in the Organization
MGT 370  International Management

-or-
MGT 470  International Study in Business

**Senior Year - First Semester**
ACCTNG 405  Auditing
ACCTNG 408  Federal Income Taxation
FIN 325  Financial Management
MGT 306  Legal, Ethical and Regulatory Environment of Business
ACCTNG 420  Advanced Accounting

**Senior Year - Second Semester**
ACCTNG 409  Advanced Tax
ACCTNG 421  Governmental/Not-for-Profit Accounting
MGT 320  Law of Commercial Transactions
MGT 471  Strategic Management
ENT 460  Creating the Enterprise
Approved Finance Elective (FIN 340, FIN 345, FIN 419, FIN 427, FIN 428, FIN 435)

Note: Students should ensure that prerequisites are taken in the proper sequence.
**Business Administration Minors**

Students interested in business may complete a minor in either business administration or entrepreneurship. The minors are open to degree-seeking undergraduate students, with the exception of students pursuing a degree in programs that do not recognize minors. Additionally, students pursuing a degree in business or accounting are not eligible for the minor in Business Administration.

Students must achieve a minimum GPA of 2.25 in all Bloch School courses. Transfer students with equivalent course credit will be required to take a more advanced course in that same area. Students are limited to 30 hours of coursework in the Bloch School. All coursework toward the minors must be completed at UMKC.

Students interested in the Business Administration or Entrepreneurship minors should contact staff in the Bloch School Student Services Office, room 115.

**Business Administration Minor**

The minor consists of the following coursework and is subject to the student satisfying all applicable prerequisites.

**Required for admission to the Business minor:**
MIS 202 Computer Applications in Management
ACCTNG 210/ACCTNG 210L Introduction to Financial Accounting

**Required courses:**
MKT 324 Marketing Concepts
FIN 325 Financial Management
MGT 330 Understanding the Individual in the Organization

**Business elective:**
One 300/400 level course -or- ENT 215/ENT 315 Introduction to Entrepreneurship (preferred) -or- ENT 201/ENT 301 Entrepreneurship Immersion

**Total hours for Business Administration minor: 18**

**Entrepreneurship Minor**

The Entrepreneurship minor is designed to help students acquire and refine their entrepreneurial skills. The minor is intended both for Bloch School students and for students outside of the Bloch School who would like to bring an entrepreneurial perspective to their major field of study.

**Required courses:**
ENT 215/ENT 315 Introduction to Entrepreneurship (preferred for Bloch School students) -or- ENT 201/ENT 301 Entrepreneurship Immersion
ENT 327 Creating the New Venture: Experiential Learning -or- ENT 328 Creating the E-Business: Experiential Learning

**Entrepreneurship electives:**
Students must also complete four additional entrepreneurship electives from the following list:
ENT 332 Managing the New Venture: Experiential Learning
ENT 341 Technology Entrepreneurship
ENT 361 New Product Development  
ENT 364 Entrepreneurial Management  
ENT 412 Entrepreneurial Finance and Venture Capital Investment  
ENT 432 Entrepreneurial Marketing and Selling  

Students have the option of replacing up to two entrepreneurship electives noted above with two discipline-related electives that are consistent with their entrepreneurial focus. These classes must be pre-approved by the Bloch.

**Total hours for Entrepreneurship minor: 18**

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**Special Programs and Centers**

**Bloch Executive Education Center**

Bloch School  
Bloch Executive Education Center 5110 Cherry, Suite 305  
(816) 235-6071  
http://www.bloch.umkc.edu/execed

Bloch Executive Education is the Kansas City area's university partner for management seminars and custom corporate programs that support innovation and leadership development. The Center’s programs are designed to engage business, government, and non-profit leaders in learning application of concepts and practices that affect growth locally and abroad. Custom programs are designed in concert with clients to meet a specific need of the organization. Management seminars are available to executives and aspiring leaders based on personal and professional competency needs. Our nationally-recognized faculty provokes thought and challenge perspectives through relevant curricula that feature innovative thought, research insights, and business best practices.

**Center for Global Management Studies**

Bloch School  
5110 Cherry St.  
http://www.bloch.umkc.edu/centers-institutes/center-for-international-business/index.aspx

The Center for Global Management Studies at the Bloch School promotes and supports academic study and research in global management issues. The objectives of the Center include: (1) developing and maintaining global course offerings that support the Bloch School Strategic Plan; (2) supporting faculty research activities that are closely related to global management issues; (3) promoting and supporting Bloch School faculty and student involvement in academic exchange programs with partner universities throughout the world; and (4) engaging in liaison and outreach activities with UMKC, Kansas City, national and international organizations involved in global management activities.

**Cookingham Institute of Urban Affairs**

Bloch School 5110 Cherry St.  
(816) 235-2894  
http://www.bloch.umkc.edu/centers-institutes/lpcookingham/index.aspx

The mission of the L.P. Cookingham Institute is to promote urban civic engagement and social entrepreneurship on critical issues of local and regional impact through research, educational programs, and community engagement. The Institute partners with government, business, and nonprofit entities to identify problems, develop solutions, and bring cutting-edge practices to
Kansas City. The Cookingham Institute also contributes to promoting dialogue within UMKC on urban core issues through grants, contracts, and a variety of other programs.

**Institute for Entrepreneurship and Innovation**  
Bloch School 5110 Cherry Street Kansas City, MO 64110-2499 P: (816) 235-6200 F: (816)-235-6529 http://www.entrepreneurship.bloch.umkc.edu/  
The Princeton Review ranks the Institute for Entrepreneurship and Innovation at the UMKC Bloch School among the top 25 graduate entrepreneurship programs in the nation, beating out 2,300 other schools. The mission of the Institute for Entrepreneurship and Innovation is to inspire and nurture entrepreneurs and innovators through transformational education and research and the Institute’s vision is to be a global leader in creating and disseminating knowledge to advance entrepreneurship and innovation. As a unique differentiator, the Institute distinguishes itself across 5 key elements: research, faculty, education, programs, and results. The Institute’s goal is that experiential learning will be the basis for all curriculum and programs. By delivering a curriculum designed specifically for aspiring entrepreneurs and progressive student programs, our students acquire first-hand knowledge in creating and managing high-growth potential enterprises. The Institute strives to prepare students to create new businesses and develop innovations for established companies. All students are expected to create and manage a new venture before graduation. And entrepreneurship education isn't limited to just business students. We welcome students from every discipline on campus who want to learn how to spark ideas and create businesses.

**Lewis White Real Estate Center**  
Bloch School 5110 Cherry St. #319 (816) 235-6288/5188  
http://www.umkc.edu/whitcenter/  
The Lewis White Real Estate Center (The White Center) is a center that focuses on developing students to become real estate leaders in Kansas City and beyond, as well as enabling the experienced professional to take their real estate career to the next level. Faculty of the Center conduct state-of-the-art research in the field of real estate and provide an educational resource for the community. The newly established degree in Entrepreneurial Real Estate provides a comprehensive body of real estate knowledge essential for anyone involved in making decisions about real estate including wealth creation, location choices for business, financing, valuing or managing. It provides a thorough understanding of the financial risks and rewards of real estate development, particularly in an urban context, as well as the relationship between public policy and urban development.

**Midwest Center for Nonprofit Leadership**  
Bloch School 5110 Cherry St. (816) 235-2305 http://www.mcnl.org  
The Midwest Center for Nonprofit Leadership is the Bloch School research and education center that prepares and supports the work of leaders and managers of nonprofit public service organizations throughout the Midwest. The Center enhances the performance and effectiveness of nonprofit organizations and their leaders through high quality community-oriented education, research and facilitation services. Center faculty, fellows and students support nonprofit organizations as educators, advisers and facilitators in areas such as governing board development, management development, strategic planning, strategic organizational and
financial management, and the leadership of major change initiatives. The Center also operates a Nonprofit Resource Center that is open to students and all members of the community.
Medicine, School of

School of Medicine
Hospital Hill Campus
2411 Holmes Street
(816) 235-1808
Fax: (816) 235-5277
medicine@umkc.edu
http://www.med.umkc.edu
http://research.med.umkc.edu/

Mailing Address:
University of Missouri-Kansas City
School of Medicine
2411 Holmes Street
Kansas City, MO 64108-2792

Dean:
Betty M. Drees, M.D., F.A.C.P.

Provost for the Health Sciences, Emeritus:
E. Grey Dimond, M.D.

Senior Associate Deans:
Paul Cuddy, Pharm.D. (Academic Affairs)
Dev Maulik, M.D., Ph.D., FACOG, FRCOG (Women's Health)

Associate Deans:
Louise M. Arnold, Ph.D. (Research in Medical Education and Director, Office of Medical Education and Research)
Stuart. Munro, M.D. (Center for Behavioral Medicine)
Diana Dark, M.D. (Saint Luke's Hospital Programs)
Stefanie Ellison, M.D. (Council on Curriculum)
Jill A. Moormeier, M.D., M.P.H. (Graduate Medical Education)
Brenda Rogers, M.D. (Student Affairs)
Travis Solomon, M.D., Ph.D (Research)
Mark T. Steele, M.D. (Truman Medical Center)
Michael Artman, M.D., Chair (Children's Mercy Hospital Programs)
Susan B. Wilson, Ph.D. (Office of Cultural Enhancement & Diversity)

Chairs:
Julie Banderas, Pharm.D., FCCP, BCPS (Graduate Council)
Stefanie Ellison, M.D. (Council on Curriculum)
Stephen R. Griffith, M.D. (Council on Selection)
David C. Hermanns, M.D. - (Faculty Council)
Sara E. Gardner M.D. (Council on Evaluation)
George R. Reisz, M.D. (Council of Docents)
Shauna R. Roberts, M.D. (CME Council)

**Assistant Deans:**
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Richard W. Trullinger, Ph.D. (Allied Health Programs)
Julie Banderas, Pharm.D., FCCP, BCPS (Graduate Studies)
Rose Zwerenz, M.D. (Truman Medical Center Lakewood Programs)
John Foxworth, Pharm.D. (Faculty Development)
Felix Okah, M.D., M.S. (Career Advising)

History
Philosophy
Medical Degree Learning Outcomes
Student Services:

- Academic Advising
- Career Advising
- Academic Support Services
- Financial Support
- Wellness Program

Library and Information Services
Medical Degree Programs:
Baccalaureate/M.D, Program:
- Program Description
- Admission Requirements
- Application Fee and Timetable for Applying
- Typical Curriculum
- Requirements for Graduation

M.D. Program

Advanced Standing / Transfer Program

Oral Surgery/ M.D, Program

For additional information about the above Medical Degree programs, please the website or contact:
UMKC School of Medicine
Council on Selection
2411 Holmes Street
Kansas City, MO 64108
(816) 235-1870
medicine@umkc.edu

Graduate Degree Programs:
Graduate Certificate in Clinical Research
Student Learning Outcomes
Certificate Requirements
Completion Requirements

Graduate Certificate in Health Professions Curriculum and Evaluation

Master of Science in Anesthesia
Student Learning Outcomes
Program Requirements
Graduation Requirements

Master of Science in Bioinformatics
Student Learning Outcomes
Program Requirements
Graduation Requirements

Undergraduate Medical Degree and Graduate Degree Courses:
Anesthesia (ANESTH)
Basic Medical Science (BMS)
Medicine (MEDICINE)
Medical Bioinformatics (MEDB)
History
The University of Missouri opened a medical school on the UMKC campus in 1971. Using an alternative approach to medical education from that of the traditional four-year school, the School of Medicine has as its primary mission the training of physicians able to meet the health-care needs of Missouri and the nation.

The approach used at this school is to grant admission to medical school directly from high school in a curriculum spread over six or more calendar years. By providing students with early and continuous patient-care experience, the curriculum fully integrates the teaching of liberal arts/humanities, basic sciences and clinical medicine. The environment for learning created at this institution de-emphasizes competition and encourages learning through close faculty-student interaction and student partnerships.

All medical schools are reviewed and accredited by the Liaison Committee on Medical Education, a national body representing the Association of American Medical Colleges and the American Medical Association. The academic philosophy and plan have been endorsed by this committee, and the school is fully accredited.

Philosophy
The fundamental purpose of medical schools is to educate physicians. The prime objective of all professionals, physicians included, is to apply a sophisticated body of knowledge and skills to the solution of problems faced by people. In doing so, the individual will follow standards of the profession for competence, ethics and communication and will demonstrate commitment to the principles of professionalism - altruism, humanism, excellence and accountability.

The school does not separate the several obligations of a medical school: to educate the student, the house officer and the physician; to attract new talent to the health-care field and to ensure that talent remain active and prepared; to maintain maximum standards of ethics and care; to have concern equally for the individual and for the community; and to foster inquiry, to find answers and to apply those answers.

Library and Information Services
Information services, including periodicals, computer literature searching and a full range of innovative reference services, are available through the Health Sciences Library. For more information, see the section on Library Services.

Medical Education Media Center
The MedicalEducationMediaCenter is a learning resources facility that offers over 3,000 anatomical and physical exam models, audiovisual programs and instructional software. Collection development is primarily in support of the School of Medicine curriculum for classroom instruction and self-study. However, additional services provide a collection of audiovisual CME, USMLE study/review titles and a subscription to the online testing bank Exam Master. Exam Master provides over 17,000 board type questions for USMLE Steps 1-3 and medical specialty boards (UMKC SOM user ID/password required).
The facility offers a computer lab with Internet access, open tables for model usage and an audiovisual viewing room equip with DVD and video players for small groups. Our quarterly newsletter, “MultiMedia Memo,” may be found at: www.med.umkc.edu/news/
For access to our online catalog, Exam Master or general information, go to our web site: www.med.umkc.edu/memc.

Location: UMKC School of Medicine, 2nd floor, room M2-C04A Phone: 816-235-1832; 816-235-1864 Hours: Monday – Friday, 8:00 a.m. to 8 p.m.

**Information Services**
Information Services are maintained by the department of Evaluation and Computer Resources (ECR).

ECR provides all computer-related support for all Faculty/Staff/Students and various research groups within the School of Medicine.

In addition to providing support and many other services, including the School of Medicine’s official web site, it also maintains computer and printing resources for student use which are accessible **24/7** in the building, with additions to follow in the future.

ECR also maintains a Digital Signage Network that allows the creation and delivery of targeted messages (i.e. Text/Image/Audio/Video) that timely inform and educate the audience of relevant news, events, and other happenings, in high-traffic areas throughout the School of Medicine.

Current resources include:

**38** - Dell/Windows XP workstations that are found in all Student Unit areas on the 4th/5th floors. Each of the 8 Student Unit areas also incorporates a conference room workstation with a large monitor setup for presentations, etc.

**18** - Dell/Windows XP workstations located in the Technical Learning Center (TLC) on the 3rd floor. **Note:** Currently, use of lab is by reservation only.

**4** – Dell XPS One/Windows Vista Kiosk workstations located in the Theater A lobby on the 1st floor.

**3** - Apple iMac/Windows XP Kiosk workstations located in the main lobby on the 1st floor.

**2** - Dell/Windows XP Kiosk workstations located in the Canteen/Vending area on the 1st floor.

**2** - Dell/Windows XP Kiosk workstations located outside the Health Sciences Library on the 2nd floor.

**2** - Dell/Windows XP Kiosk workstations located next to the TrumanMedicalCenter entrance on the 4th floor.
The School of Medicine also incorporates a secured, wireless network that virtually covers the entire building. Additionally, much of the UMKC Volker and Hospital Hill campus buildings have additional wireless access coverage areas for your convenience. For more information on wireless locations and details, please visit: www.umkc.edu/medicine/wireless

**Student Services**
The School of Medicine's Office of Student Affairs coordinates a variety of support services that are available to all medical students and are in line with the competencies expected of a UMKC School of Medicine graduate. These services include but are not limited to academic and career counseling, financial planning, personal support, enrichment activities, students events and student organizations and activities.

The Council on Selection; the Minority Recruitment and Retention Committee; the associate dean for cultural diversity and minority programs; the associate dean of the Office of Medical Education and Research; the assistant dean for admission and recruitment; and the manager for student affairs work together in recruitment and retention of students, including minority students.

The School of Medicine has at least 25 student organizations and a number of traditions and activities. Students may also participate fully in the services and activities provided to all UMKC students through the Office of the Vice Chancellor for Student Affairs. The Office of Student Involvement, Life, located in the University Center, located at the Student Union coordinates the cultural, social and recreational programs of the campus. Also located on the Volker campus are the Center for Academic Development; the Women's Center; the Counseling, Health and Testing Center; and Career Services.

School of Medicine staff regularly meet with students individually, in class meetings and in multiple orientation settings to discuss relevant and timely policies, processes and resources.

**Academic Advising**
The School of Medicine has a number of personal and academic support systems in place to assist students at all levels of the program. There are two education team coordinators with offices on the Volker campus who help the first- and second-year students in curriculum planning and who are available to counsel them on problems.

Each group of 10-13 students has a physician-scholar (or docent) who instructs the students in medical coursework during the first two years and who also serves as a role model and personal counselor. Additionally 10-12 Year 2 students are selected as peer mentors to the Year 1 class. These students are selected because of their past academic performance and their success in integrating themselves into life at UMKC and the School of Medicine.

From year 3 through year 6, each student is a member of a 12-student team assigned to a docent who teaches and counsels throughout these years of the curriculum. Teams are assigned an education team coordinator to advise about course selection and personal problems in consultation with the docent. In their third and fourth years, students are partnered with older
students who serve as senior partners. Additional campus resources are available to students in the areas of counseling and support including the UMKC Counseling and Testing Center.

**Career Advising**
The School of Medicine's career advising staff provide medicine specific guidance to students by meeting with students individually as they develop Curricula Vitae and Personal Statements; advise on career choice, residency selection and interviewing process and maintaining a database of physician specialists in the Kansas City area and elsewhere who are willing to mentor students in their specialty exploration and choice. They provide presentations on how to assess compatibility and 'fit' with different career paths; explore specialty options and make an informed choice; construct curricula vitae and personal statements; research residency programs and prepare to be a competitive applicants; as well as interview skillfully and follow up properly.

**Academic Support Services**
The School of Medicine provides academic support to all its students. The curriculum provides challenging coursework, and students should explore all opportunities for alternative study methods. Students have the responsibility to become life-long learners and to meet their own and the school's learning goals. The following services are offered:

**Support for Basic Science Courses**
During the first years the students take several basic science courses and are given as much support as possible. A course called, Learning Basic Medical Sciences is designed to give all students in their first year at the Medical School a core of learning strategies to prevent academic difficulty and to improve higher-order cognitive skills. Course topics surround discussions of learning styles, efficient study techniques and current basic science coursework. Study groups are available in the core basic science courses of the school curriculum. The groups consist of three to five students and a group facilitator/tutor, meeting once or twice a week. Test performance has consistently been enhanced for students actively participating in these groups. Therefore, all medical students are encouraged to participate fully. Study-group leaders are selected on the basis of their own performance in the course, their abilities to communicate course content and the recommendations of course professors.

Lecturers in the School of Medicine provide several support sessions and open office-hours during the week as well as individual appointments for students to attain their learning goals. For many classes the school provides successful senior medical students as tutors. Tutors set meeting times and agenda according to students' needs. Students are also encouraged to take advantage of Supplemental Instruction for courses in which it is offered.

**Additional Assistance**
Individual assistance is available to medical students through a variety of means. Students may receive individual analysis of their study techniques, including reading comprehension; time management; short- and long-term retention techniques; and test-taking abilities. Analysis of a student's basic science knowledge is available through several computer-assisted programs. If required, individual tutoring may be available to supplement the assistance offered through study-group programs. Counseling support also is available to students with personal issues that may hinder their academic performance.
United States Medical Licensing Exam Step 1 Preparation
Students preparing for Step 1 of the USMLE are offered a variety of programs to supplement their individual review of the basic sciences. These programs consist of discussion groups, interactive video review sessions, individual test-taking analysis and a Step 1 mock exam. Some of the programs are free to all students and other involve enrollment in fee-based programming. In addition to academic preparation support, resources are available to help students manage the stress related to their preparation for the exam.

Financial Support
The School of Medicine has a full-time Counselor of Student Finances to assist students and parents in understanding the financing of medical school. This individual provides ongoing financial literacy programming to the student body and can assist students one-on-one with the budget planning process.

Students at the UMKC School of Medicine have access to the resources of the UMKC Financial Aid and Scholarship Office. Additionally, that office has a designated health science specialist with an office on Hospital Hill. A variety of need-based and merit-based scholarships are offered to School of Medicine students in conjunction with scholarships and aid available through institutional and external sources.

For the latest information on financial aid programs at UMKC see http://www.sfa.umkc.edu.

Wellness Program
The School of Medicine has a full-time Wellness Program Coordinator who coaches students and serves as a point of referral. In addition to Wellness Planning and Coaching, the UMKC School of Medicine Wellness Program offers a variety of workshops throughout the year.

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**Medical Student Organizations, Publications and Awards**

**Alpha Omega Alpha**

The Delta Chapter of the Alpha Omega Alpha Honor Society is an organization open to no more than 1/6th of the graduating class. In accordance with the national constitution, scholastic achievement should be the primary but not sole basis for election of a student. Leadership capabilities, ethical standards, fairness in dealing with colleagues, potential for achievement in medicine, integrity, compassion, professionalism, conscientiousness, and a record of service to the school and community at large should be criteria considered in addition to the academic record. Memberships are also granted each year to a faculty member, an alum of the school, and a member of the housestaff or fellow each year.

**American Medical Association - Medical Student Section**

Dedicated to representing medical students, improving medical education, developing leadership and promoting activism for the health of America.

**American Medical Student Association**

The primary goal of AMSA is the initiation of student-organized projects for the benefit of medical students and the community on local, state and national levels. The development of hypertension clinics, presentations about venereal disease to area high schools, AIDS awareness programs and a drug-replacement program represent some of AMSA's projects in past years.

**American Medical Women's Association**

The AMWA promotes an understanding of the individual in medicine. Its membership is open to all interested men and women. AMWA's programs include speakers on special topics, field trips, social projects and other activities of benefit to all students.

**Association of American Medical Colleges - Organization of Student Representatives**

The OSR is the student branch of the Association of American Medical Colleges (AAMC). The OSR is charged with the representation of the undergraduate medical student body of the United States to the academic medical community.

**Asian Pacific American Medical Students' Association**
The goals of APAMSA are to educate all medical students about health-care needs specific to the Asian Pacific community and to address issues important to Asian Pacific American medical students.

**Christian Medical/Dental Society**

This group is open to students of all faiths. The organization fosters greater understanding of spiritual concerns in relationship to health and well-being.

**Global Medicine Relief Program**

GMRP's mission is to promote quality health care in under-served communities around the world by working with local doctors and health care professionals and by providing medical supplies and equipment; to provide dental, hygiene and basic health care supplies in areas of natural disaster; to promote human rights in developing regions by improving health infrastructure; to participate in a global community of organizations which are similarly dedicated to providing health care in developing regions; and to organize student groups at all educational levels in these humanitarian efforts. GMRP especially seeks to touch the lives of the most vulnerable people in any population and believes in the importance of assisting both internally and externally displaced refugees.

**Gold Humanism Society**

The Gold Humanism Society is sponsored by the Arnold P. Gold Foundation and is closely linked to the Sirridge Office of Medical Humanities.

**Medical Student Advisory Council**

The MSAC serves as the student government body in the School of Medicine and is comprised of student-elected representatives who focus on promoting student interests, keeping the administration informed of student opinion and organizing social activities. MSAC serves as an umbrella organization for student interest groups in the areas of Anesthesiology, Emergency Medicine, Family Medicine, Geriatric Medicine, Internal Medicine, International Medicine, Med/Peds, Obstetrics/Gynecology, Physical Medicine and Rehabilitation, Psychiatry, Spanish in Medicine, and Surgery.

**Sojourner Clinic**

The Sojourner Health Clinic is a free clinic developed and managed by UMKC Medical Students to provide outpatient care to the homeless and underprivileged population served by GrandAvenueUnitedMethodistTemple. On Sunday afternoons, the students, with faculty supervision, provide acute and chronic medical care to the Sojourners of downtown Kansas City, many of whom also are served a free hot lunch at Grand Avenue Temple.
Student National Medical Association

The promotion of the interests of minority students is the foundation of the SNMA. Leadership development, social awareness, service to humanity and excellence as physicians are the major objectives of this group.

Student Wellness Council

The Student Wellness Council promotes healthy habits and wellness amongst UMKC School of Medicine students.

Publications

A monthly publication of the school, P.R.N., provides information on school programs, policies and student activities and is distributed online to School of Medicine students, their families and faculty. A quarterly magazine, Panorama, is primarily distributed to alumni, affiliated hospitals and friends of the school and is available throughout the school.

Six Year Program Description

The fundamental objective of the School of Medicine is to graduate physicians able to meet the health care needs of Missouri and the nation.

Classes begin in the fall of year 1. By using 35 weeks of study the first year and 48 weeks every year after that, each student will have the opportunity to earn the credits necessary for both a baccalaureate and a medical degree. This six-year continuum does not make an arbitrary separation between liberal arts and professional education.

The first two years of the six-year curriculum are arranged for the student to blend three-fourths of the time in liberal arts coursework and one-fourth of the time in introduction to medicine coursework. This initial two-year period allows students adequate time to determine whether they are motivated enough to continue in medicine. At the same time, the faculty will have adequate opportunity to judge whether each student has the characteristics and capabilities necessary for a career in medicine.

The introduction to medicine courses during the first two years are designed to provide just that - an introduction to medicine. Special attention is given to the effect of illness on the patient, the family and the community. There is emphasis on the coordination of effort, the team approach, to the solution of medical and health care problems. The year 1 and 2 curriculum has been further enhanced with the addition of a geriatrics program which pairs students with aging mentors. The courses will integrate patient interviews and examinations with branches of science fundamental to clinical medicine, including anatomy, physiology, biochemistry, psychology and sociology.

These courses have certain coordinated objectives, each of which represents an important component in the general concept of medicine as applied to human biology. The objectives are to help students understand and learn about the following:
• The language and vocabulary of medicine.
• The effects of illness on individuals, families and communities.
• The background setting of illness and health care, including the importance of social, psychological and economic factors.
• The history of medicine and its present state.
• The roles and responsibilities of physicians and other personnel involved in health care.
• Selected content information from anatomy, physiology, chemistry, psychology, sociology and other sciences fundamental to medicine, together with the continuing importance of such information in the reasoning of the physician.
• The logic, rationale and process of clinical reasoning.

An important feature of the School of Medicine program is the early and continuing contact of the student with a team of scholars called docents. Each docent is a full-time physician responsible for the education of a small group of students. The docent serves as a role model for students as well as a guide and mentor. At year 3, students are assigned to a docent team, a group composed of students from each of year 3 through year 6 classes. Beginning in year 4, students spend two months each year on docent rotation, an internal medicine clerkship. During this time in particular, and throughout the rest of the academic year, the docents guide their students through the experiences necessary to acquire a strong foundation of clinical competence.

Students in their third and fourth years are partnered with their fifth- and sixth-year peers on the docent unit.

The School of Medicine program in years 3 to 6 of the combined degree program has several features:
• The core educational program is designed and directed by physicians who are primarily concerned with medical student education and who have patient care responsibilities;
• Since the curriculum core content is based on clinical experiences, the medical student’s education will be problem-centered. Faculty from many University disciplines participate in teaching medical students, and education in the clinical sciences takes place in affiliated hospitals. These hospitals provide a communitywide model for patient care;
• The curriculum integrates liberal arts, basic sciences and clinical medicine. It uses planned repetition, reinforcement and relevancy to enable students to acquire the requisite attitudes, knowledge and skills expected of a Medical School graduate;
• Students may have an extended program by taking extra time;
• During the third through sixth years, students are required to return to the Volker campus at least two times, usually in years 3 and 4, to take liberal arts coursework. Students are also required to enroll in a medical humanities course in year 5 or year 6.
**Typical Six-Year Program of Study**

**Year 1**

*Medicine*
- **Fall**  Medical Terminology
  Learning Basic Medical Sciences
  Fundamentals of Medical Practice I
- **Spring**  Fundamentals of Medical Practice II

*Arts & Sciences*
- **Fall**  Human Biology I (Anatomy) w/Lab
  General Chemistry I w/Lab
  Psychology
  Courses for B.A. Degree*
- **Spring**  Human Biology III (Microbiology) w/Lab
  General Chemistry II w/Lab
  Sociology

**Year 2**

*Medicine*
- **Summer**  Hospital Team Experience
- **Fall**  Fundamentals of Medical Practice III
- **Spring**  Fundamentals of Medical Practice IV

*Arts & Sciences*
- **Summer**  Organic Chemistry w/Lab
  Cell Biology
- **Fall**  Human Biochemistry
  Sociology - Life Cycles
  Genetics
  Courses for B.A. Degree*
- **Spring**  Structure/Function I, II, III
  Courses for B.A. Degree*

**Year 3**

*Medicine*
- History of Medicine
- Clinical Correlations
- Clinical Skills
- Introduction to Pharmacology (Independent Study)
- CUES (Communication, Understanding, Education and Self-Awareness)
- Pathology I & II
- Medical Microbiology
- Medical Neurosciences
- Continuing Ambulatory Care Clinic
Arts & Sciences
   Structure/Function IV

Year 4
Medicine
   Pharmacology
   Behavioral Sciences in Medicine
   Docent Rotation
   Family Medicine
   Ambulatory Care Pharmacology (Indep Study)
   Continuing Ambulatory Care Clinic
   Patients, Physicians, and Society I and II

Arts & Sciences
   Courses for B.A. Degree*

Year 5
Medicine
   Psychiatry
   Prescribing for Special Populations (Indep Study)
   Obstetrics/Gynecology
   Pediatrics
   Family Medicine Preceptorship
   Surgery
   Elective
   Docent Rotation
   Emergency Medicine (may be taken in Year 6)

Arts and Sciences
   Medical Humanities (may be taken in Year 6)

Year 6
Medicine
   Docent Rotation
   Emergency Medicine (may be taken in Year 5)
   Rational & Safe Drug Prescribing (Indep Study)
   Electives
   Continuing Ambulatory Care Clinic

Arts & Sciences
   Medical Humanities (may be taken in Year 5)

All students are required to take three clinical electives as graduation requirement. Three individual clinical electives must be selected from designated nine required general categories. One of the three electives must be a Critical Care elective.
Admission Requirements

Current High School Students
The School of Medicine offers a six-year B.A./M.D. program that requires students to complete both a baccalaureate degree and doctor of medicine degree. Admission to the B.A./M.D. program is highly competitive, and admitted students are challenged by a demanding curriculum scheduled for 35 weeks in the first year and 48 weeks in each of the remaining five years. Applicants for admission to Year 1 of the six-year medical program must first be accepted by the University of Missouri – Kansas City. Admission to the university is determined by a combination of ACT score and class rank, as well as graduation from an accredited U.S. high school with completion of the following high school curriculum.

- Four units of English
- Four units of Mathematics (Algebra 1 or higher)
- Three units of science (including one unit of Biology and one unit of Chemistry)
- Three units of social studies
- Two units of a single foreign language
- One unit of fine arts (visual arts, music, dance, or theater).

For more information about UMKC admission requirements and/or the application procedures, please contact the UMKC Office of Admissions at:

Office of Admissions
University of Missouri – Kansas City
120 Administrative Center
5100 Rockhill Road
Kansas City, MO 64110-2499

In addition, School of Medicine applicants are also required to submit a supplemental application and additional supporting documents, consisting of the following:

- Personal statement (500 words or less)
- Short answer responses
- Listing of all health-related and co-curricular activities (high school only)
- References (minimum 3, must be provided on official School of Medicine Reference Forms)

The School of Medicine strongly encourages prospective students to earn credit through Advanced Placement (AP) courses, if available, in math, English, European history, or American history.

Students whose high school does not offer biology, chemistry, and/or foreign language are encouraged to contact the Council on Selection at the School of Medicine.

Students are selected to interview based on the information provided in a complete application. Once interviews are complete, the Council on Selection will convene to determine which
students will be offered admission to the program. Most applicants to the combined degree program display outstanding academic credentials and backgrounds and strong leadership and involvement. The applicant pool is extremely competitive, and no one component of the application guarantees an offer of admission.

**Current College Students**

**Students with 24 college credit hours or less:**
Students with 24 hours or less of post high school graduation college credit at the time of application are eligible to apply for admission to the 6-year B.A./M.D. program. These applicants will be reviewed with the same criteria as freshman applicants.

If the applicant is currently enrolled in college in the semester in which they apply to the six-year program, the number of hours accumulated at the end of that semester must not exceed the 24-hour credit limit. While the application is being processed, applicants may continue taking college courses during the next semester.

Applicants must have earned a 3.0 GPA or higher at the end of the fall semester in order to be considered for admission. Official college transcripts must be submitted along with other application materials. Grades for courses completed in the fall semester in which the applicant applied must also be submitted upon completion of the semester. A current ACT test within the last three years is also required.

**Students with more than 24 college credit hours**
Students who have completed more than 24 post high school college credit hours and have not yet received a Bachelor’s degree are not eligible to apply to the School of Medicine.

**Students who have earned, or will be earning in the year of application, a Bachelor’s degree**
Students who have completed more than 24 post high school college credit hours and have earned, or will soon earn, a Bachelor’s degree are eligible to apply to the M.D. Program.

A limited number of positions are available for students who have completed their baccalaureate degree. For admission requirements for entrance as an M.D. Program student, please contact the Council on Selection in the School of Medicine.

For more information about the combined B.A./M.D. program, please contact the Council on Selection at:
UMKC School of Medicine
Council on Selection
2411 Holmes
Kansas City, MO 64108
Application Deadlines

Completed application materials will be accepted during the following period:

- Earliest date - Aug. 1 of the year preceding the fall semester for which applying.
- Latest date - Nov. 1 of the year preceding the fall semester for which applying.

All applications must be complete with supporting documents by November 1. Late applications will be considered on a space available basis. Incomplete applications will not be considered. (Applicants are urged to apply as soon after Aug. 1 as possible.)

High school students wishing to enter this program should recognize that many other well-qualified high school students with strong science backgrounds also will be applying. Because this is a state-assisted university, primary consideration is given to Missouri residents with over fifty percent of the incoming class from the state of Missouri.

Criminal background checks will be performed on combined-degree students and M.D. Program students before matriculation into the program.

Application Fee

Applicants are strongly advised to apply online. A $35 non-refundable application fee is required.

These fees are for students applying with the online application only. Paper applications may be assessed a higher fee.

Student Learning Outcomes for Six Year B.A.-M.D. Program

Years 1-2

Effective Communication

- The student demonstrates competence in written communications such as laboratory reports, term papers and other classroom writing assignments.
- The student demonstrates competence in oral communications in a one-on-one setting, such as introducing and beginning a history with an individual patient. History-taking skills at this level will be very basic and straightforward.
- The student demonstrates effective listening skills with faculty members, other students and patients.

Clinical Skills

- The student is able to perform the basic elements of a history. The student will have observed a physical examination and observed some of the routine clinical procedures.

Using Basic Science in the Practice of Medicine

- The student has an introductory and very general understanding of anatomy and microbiology.
- The student has a more advanced understanding and an ability to apply some information to a few clinical situations in biochemistry and physiology.

Diagnosis, Management and Prevention

- The student has an introductory understanding of principles of diagnosis, management and prevention.
- The student is able to identify general, rather than specific approaches to management, but is usually not expected to carry them out in real settings.
Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities

- The student is proficient in framing a question, utilizing modern information searching modalities, organizing data, compiling and using information to answer the question in the context of a structured setting, such as an undergraduate course.
- The student has an introductory knowledge of the humanities and social science. Enough information is learned at this level to stimulate the student to desire further learning in medicine, humanities and social sciences.

Self-awareness, Self-care, Personal Growth and Professional Behavior

- The student exhibits behaviors indicative of personal self-awareness through a process of self reflection. Students are able to identify potential areas of weakness and are able to conceive of potential options for addressing these areas.
- The student is able to identify areas of strength and is able to build on these strengths.
- The student is able to set goals for a self-study plan.
- The student is aware of his/her personal growth in regards to age specific developmental tasks.
- The student knows the elements of professional behavior and can explain the meaning of each element.
- The student can cite an example of how each of the elements applies in Year 1 and Year 2 coursework for the baccalaureate and M.D. degree.
- The student shows courteous regard for other students and faculty and acknowledges the views of others. The student shows courteous regard for his/her mentor on aging and for the patients they meet in their docent group experiences. The student interacts with patients they meet in their docent group experiences in an appropriately compassionate fashion. The student expresses empathy for his/her mentor on aging as appropriate.
- The student puts the legitimate needs of his/her mentor on aging, patients, docent group members and study group members first before his/her own needs.
- The student demonstrates academic honesty in all aspects of his/her coursework for the baccalaureate-M.D. degree.
- The student carries through on assignments and other responsibilities; arrives promptly for meetings or classes; accepts personal responsibility for group projects; and completes course evaluations in a timely and thoughtful fashion.
- The student searches out opportunities to learn and tries to excel in their coursework.

Diversity and the Social and Community Contexts of Health Care

- The student appreciates some of the non-biological factors that influence health, disease, disability and access to care.
- The student attributes proper importance to identifying non-biological factors.
- The student is aware of different value systems and life styles.

Moral Reasoning and Ethical Judgment

- The student can identify and apply ethical considerations relating to professional behavior and student conduct as a forerunner to professional behavior.
- The student develops an introductory understanding of ethical choices related to a few controversial medical issues.

Problem-Solving Skills

- The student displays competence in basic problem-solving skills as applied to basic science courses or simple, straightforward medical problems.
Years 3-4
Effective Communication

- The student develops and demonstrates competency in using the written language effectively by:
  - Medical record documentation in the continuing care clinic and on docent rotation.
  - Writing papers for courses and rotations.
  - Essay examinations in medical ethics.
- The student develops and demonstrates competency in using oral language and listening effectively by:
  - Communicating with patients and families in the continuing care clinic and on docent rotation.
  - Communicating with senior partners, peers and faculty.
  - Functioning as an effective junior partner.

Clinical Skills
- The student is able to perform a comprehensive history and physical examination of patients in the outpatient setting and the general medical wards, excluding critical care settings.
- The student is competent in performing venipuncture and basic CPR.
- The student is able to perform a gram-stain, vaginal smear wet prep, stool occult blood, urinalysis, urine pregnancy test, finger stick glucose determination and peak expiratory flow rate.
- The student has observed and is familiar with some of the more complex or specialized lab and diagnostic tests.
- The student knows the basics in the interpretation of plain x-ray studies; chest x-ray, abdominal x-ray.

Using Basic Science in the Practice of Medicine
- The student applies knowledge in the areas of behavioral science, anatomy, pathology, biochemistry, physiology, microbiology and immunology, and pharmacology to the overall care of patients.

Diagnosis, Management, Continuing Care and Prevention
- The student is able to interpret standard diagnostic studies and history and physical examination data. From these data, the student is able to state the most likely diagnosis when presented with straightforward presentations of common problems in general internal medicine. The student is expected to carry out management plans in those situations that are relatively straightforward and uncomplicated.

Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities
- The student is able to do a computerized literature search as it applies to patient problems.
- The student is able to comprehend the medical literature and understand basic statistics and the scientific method.
- The student is continually motivated by an awareness of the limits of his/her personal knowledge and experience.

Self-awareness, Self-care, Personal Growth and Professional Behavior
- The student is reflective about him or herself in a group context.
- He or she is able to confront his/her own values as they relate to the practice of medicine.
• The student is able to identify real situations of stress and his/her response to these situations.
• The student is able to practice personal techniques for relaxation and time management and can modify behavior and respond to constructive criticism.
• The student is able to identify learning needs, plan a program to meet those needs and determine how well they have met them and what further learning issues they need to address.
• The student identifies the elements of professional behavior and can explain the meaning of each element: respect, compassion and empathy, altruism, honesty, responsibility, and excellence. The student can give an example of how each of the elements of professionalism applies to Year 3 and Year 4 coursework for the baccalaureate and MD degrees and actively demonstrates them by behavior.
• The student shows courteous regard for patients, students, faculty, and members of the health care team and acknowledges their views.
• The student interacts with patients, patients’ families, and members of the health care team in an appropriately empathic and compassionate fashion.
• The student contributes to the docent team and other small groups by sharing knowledge and skills, expressing positive attitudes and accepting help from others to address his/her deficiencies.
• The student recognizes how potential conflicts between his/her own needs and the legitimate needs of patients, docent group members, and study group members might be resolved and can discuss a rationale for alternative resolutions.
• The student is honest in all aspects of coursework for the baccalaureate-MD degree and takes responsibility for his/her errors in the patient care setting after discussion with supervisors.
• The student carries through on assignments and other responsibilities; arrives promptly for meetings, classes, rounds and clinics; accepts personal responsibility for group projects and for assigned patients; and completes course evaluations in a timely and thoughtful fashion.
• The student searches out opportunities to learn, demonstrates lifelong learning skills, and tries to excel in coursework and scholarship.

Diversity and the Social and Community Contexts of Health Care
• The student elicits and identifies non-biological factors as part of the routine history taking and includes those issues, as appropriate, in the problem list formulations and management plans.
• The student takes personal responsibility for discussing these issues with patients, assessing their needs and matching them to appropriate community resources.
• The student works with his/her individual patients and families to enhance their total well-being.

Moral Reasoning and Ethical Judgment
• The student is able to employ ethical concepts and reasoning when presented with typical ethical cases in medicine, and is able to recognize ethical issues in medical practice.

Problem-Solving Skills
• The student displays competence in problem-solving skills with common clinical problems utilizing a limited knowledge base.
Years 5-6

Effective Communication
- The student develops and demonstrates competency in using the written language effectively by:
  - medical record documentation on clinical rotations.
  - preparing written patient education material.
  - writing clinical papers.
  - journals, short stories, papers or poetry during medical humanities and social science courses.
- The student develops and demonstrates competency in using oral language and listening effectively by:
  - communicating with patients and families in the continuing care clinic and clinical rotations.
  - presenting new patients to faculty in continuing care clinic and clinical rotations.
  - delivering lectures on clinical rotations utilizing slides and handouts.
  - communicating with student partners, peers, faculty and the health care providers.
  - oral examinations.
- The student develops and demonstrates competency in respecting patients and sharing information effectively with patients, families and health care team members by:
  - interacting with the individuals on clinical rotations and the continuing care clinic.
  - working as an integral part of the docent team and teams on other clinical rotations.
  - functioning as an effective senior student partner.

Clinical Skills
- The student is able to perform the basic and emergency elements of a history and physical examination smoothly and efficiently in the outpatient setting, inpatient setting, critical care setting and emergency department settings.
- The student is able to perform and interpret basic clinical procedures, laboratory and diagnostic tests smoothly and efficiently as listed.
- The student is able to describe the procedural steps necessary to carry out advanced clinical procedures as listed.
- The student observes and is able to state the indications, complications, and limitations of advanced clinical procedures as listed.
- The student is aware of the indications, complications and limitations of and interpret from the written reports complex and specialized laboratory and diagnostic tests as listed.

Using Basic Science in the Practice of Medicine
- The student is able to explain a multi-system health problem in terms of pathogenesis, mechanisms of system-to-system interactions and potential complications. The student is able to present therapeutic goals and interventions aimed at the multiple pathophysiological forces in motion.
- The student is able to exhibit clinical decision analysis that weighs the pros and cons of proposed interventions, taking into consideration such factors as drug-drug interactions and the trade-off of proposed drug interventions in the context of multi-system problems.

Diagnosis, Management, and Prevention
- The student is able to state the most likely diagnosis and management plan when presented with presentations of common problems in any of the major disciplines.
• The student is able to integrate the approach of care to individuals, families and communities, taking advantage of opportunities for prevention and education in addition to the immediate physical care.
• The student through his/her experiences in the continuing care clinic is able to provide continuing care and management for both chronic and acute medical problems and provide appropriate plans for prevention.

Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities
• The student begins to explore new opportunities for intellectual growth and professional enlightenment in medicine, the social sciences and humanities.
• The student attends a continuing medical education course.
• The student continues to recognize his/her limits of knowledge and experience.
• The student is able to recognize the significance of valid scientific discoveries reported in medical journals and recognize unsubstantiated, inaccurate or poorly performed studies and conclusions.

Self-awareness, Self-care, Personal Growth and Professional Behavior
• The student utilizes skill in coping with stress during clinical rotations.
• The student develops and demonstrates appropriate personal values and beliefs relevant to his/her practice of medicine.
• The student identifies the elements of professional behavior and can explain the meaning each element: respect, compassion and empathy, altruism, honesty, responsibility, and excellence.
• The student gives examples of how each of the elements of professionalism applies to Year 5 and Year 6 coursework for the baccalaureate and MD degrees and actively demonstrates them by behavior. He/she teaches these elements of professional behavior to junior students by explicit role modeling.
• The student shows courteous regard for patients, student, faculty and health care team members, and acknowledges their views. He/she teaches respect for other people to junior students by explicit role modeling.
• The student interacts with patients, patient families and members of the health care team in an appropriately empathic and compassionate fashion. He/she teaches compassion and empathy to junior students by explicit role modeling.
• The student contributes to the docent team and other small groups by exercising effective leadership and active teaching of teamwork.
• The student resolves potential conflicts between his/her own needs and the legitimate needs of his/her patients or health care team members appropriately and can discuss a credible rationale for the resolution.
• The student is honest in all aspects of coursework for the baccalaureate-MD degree and takes responsibility for his/her errors in the patient care setting after discussion with little or no supervision.
• The student carries through on assignments and other responsibilities; arrives promptly for meetings, classes, rounds and clinics; accepts personal responsibility for group projects and for assigned patients; and completes course evaluations in a timely and thoughtful fashion. He/she teaches junior students about responsibility through explicit role modeling.
• The student searches out opportunities to learn, demonstrates lifelong learning skills, and endeavors to excel in coursework and scholarship. He/she teaches junior students about life learning.

Diversity and the Social and Community Contexts of Health Care
• The student is able to identify and propose solutions for non-biological factors that influence health, disease, disability and access to care.
• The student is able to utilize resources in the community that may provide assistance to his or her patients.
• The student is an advocate for better health for the patients and the community.
• The student demonstrates knowledge of practice management, utilization review, quality improvement and economic and cultural issues in health care.

Moral Reasoning and Ethical Judgment
• The student is able to identify patient care and health policy ethical issues and choices in his or her own clinical experience; to evaluate critically alternative ethical courses of action by analyzing and articulating reasons for the relative importance of the different ethical considerations bearing on each choice; to select and ethically defend a course of action.
• The student recognizes the importance of the ethical treatment of research subjects and the functions of an Institutional Review Board.

Problem Solving
• The student displays competence in more advanced clinical problem solving using a comprehensive knowledge base.
• The student can effectively utilize a team approach in solving clinical problems.

Requirements for Graduation in the B.A. - M.D. Combined Program
Graduation Requirements for students in the Combined Baccalaureate/MD Program:

1. Minimum of 90 credit hours from the College of Arts and Sciences acceptable to the School of Medicine.
2. Three returns back to the College of Arts and Sciences.
3. Satisfactory completion, certified by the UMKC registrar, of requirements for the baccalaureate degree.
4. Satisfactory completion of all required medical curriculum.
5. Cumulative GPA of 2.7 to 4.0.
6. 38 months medical curriculum credit.
7. Passing scores on USMLE Steps 1 and 2 (Clinical Knowledge and Clinical Skills).
8. 3 clinical electives which must be selected from 9 separate categories.
10. 48 months of enrollment in the School of Medicine, years 3 to 6.
12. Evidence of adherence to the Fee Policies.
14. Year 6 Year-End Docent Interview.
Graduation Requirements for students in the MD Program:

1. Satisfactory completion of all required medical curriculum.
2. Cumulative GPA of 2.7 to 4.0.
3. 34 months medical curriculum credit.
4. Passing scores on USMLE Steps 1 and 2 (Clinical Knowledge and Clinical Skills).
5. 3 clinical electives which must be selected from 9 separate categories.
6. Docent certification of clinical competence.
7. 48 months of enrollment in the School of Medicine.
9. Evidence of adherence to the Fee Policies.
11. Year 6 Year-End Docent Interview.

Graduation Requirements for students in the Advanced Standing/Transfer Program:

1. Satisfactory completion of all required medical curriculum.
2. 23 months of enrollment in the School of Medicine, years 5 and 6.
3. Passing scores on USMLE Step 2 (Clinical Knowledge and Clinical Skills).
4. 4 clinical electives, 3 of which must be selected from 9 separate categories.
5. Docent certification of clinical competence.
6. 22 months earned UMKC medical school credit plus at least 12 months earned medical school credit from another US-accredited osteopathic or allopathic school of medicine.
8. Evidence of adherence to the Fee Policies.
10. Year 6 Year-End Docent Interview.

Master of Science in Anesthesia Program

The Master of Science in Anesthesia Program will graduate highly skilled and competent Anesthesiologist Assistants (AAs). AAs are physician extenders licensed to work as anesthetists under the supervision of anesthesiologists. AAs provide various services in hospitals, surgery centers, and other health care environments.

For application deadline and other information regarding the 27 month program and the AA profession please go to the UMKC MSA program website: www.med.umkc.edu/msa

Requirements for Graduation in the Master of Science in Anesthesia Program

Student Learning Outcomes

Graduates of the M.S.A. Program will be able to:

1. Communicate Effectively
   - Demonstrate good listening, writing and verbal communication skills
   - Professionally interact with patients, families and health care team members
   - Use health information technology
2. Demonstrate competency in clinical anesthesia skills under the direction of an anesthesiologist
   - Obtain a comprehensive patient history, perform relevant elements of a physical exam
   - Pre test and calibrate anesthesia delivery systems and obtain and interpret information from the systems and monitors
   - Apply and interpret routine and advanced monitoring modalities
   - Establish basic and advanced airway interventions, including intubation of the trachea and performing ventilatory support
   - Administer induction agents, maintain and alter anesthesia levels, administer adjunctive treatments and provide continuity of anesthetic care in the post-operative period
   - Perform epidural anesthetic procedures, spinal anesthetic procedures, and other regional anesthetic techniques
   - Administer blood, blood products, and supportive fluids
   - Provide assistance to cardiopulmonary resuscitation team in response to a life-threatening situation

3. Use basic science in the practice of anesthetic care
   - Explain a multi-system anesthesia related problem in terms of pathogenesis, mechanisms of system-to-system interactions and potential complications
   - Exhibit clinical decision analysis that weighs the pros and cons of proposed interventions, taking into consideration such factors as drug-drug interactions and the trade-off of proposed drug interventions in the context of multi-system problems

4. Demonstrate competency in lifelong learning
   - Explore new opportunities for intellectual growth and professional enlightenment
   - Attend continuing education courses
   - Recognize his/her limits of knowledge and experience
   - Able to draw valid conclusions after weight evidence, facts, and ideas

5. Posses self-awareness, self-care, personal growth and professional behavior
   - Cope with stress during clinical situations
   - Posses appropriate personal values and beliefs relevant to his/her practice of anesthesia care
   - Display professional behavior in all functions: respect, compassion and empathy, altruism, honesty, responsibility, and excellence
   - Display effective leadership and teamwork
   - Resolve potential conflicts between his/her own needs and the legitimate needs of his/her patients or health care team members
   - Seek opportunities to learn, demonstrate lifelong learning skills, and endeavors to excel in scholarship

6. Incorporate diversity and the social and community contexts of health care
   - Identify and propose solutions for non-biological factors that influence health, disease, disability and access to care
   - Advocate for better health for the patients and the community
   - Demonstrate knowledge of practice management, utilization review, quality improvement and economic and cultural issues in health care
7. Demonstrate moral reasoning and ethical judgment
   o Identify patient care and health policy ethical issues and choices in his or her own
     clinical experience
   o Select and ethically defend a course of action
8. Problem Solving
   o Display competence in advanced clinical problem solving using a comprehensive
     knowledge base
   o Effectively utilize a team approach in solving clinical problems

Program Requirements
The MSA Program is a nationally accredited 27-month (7 semester) program. Students enrolled
in the program must complete the required courses and 2000 clinical hours (obtained during
Anesthesia Clinical Experience courses).

Required Courses: Credit Hours

Semester 1(January to May) (18.5 credit hours)

ANESTH 5575 – Pharmacology for Anesthesiologist Assistants I 3
ANESTH 5505 - Anatomy for Anesthesiologist Assistants 3
ANESTH 5540 – Patient Monitoring and Instrumentation 2
ANESTH 5556 – Physiology for Anesthesiologist Assistants I 3
ANESTH 5560 – Introduction to Anesthesia 2
ANESTH 5561 – Orientation to Clinical Experience and Model-based Simulation 4
ANESTH 5580 – Fundamentals of Anesthetic Sciences I 1
ANESTH 5518 – Professionalism for Anesthesiologist Assistants I 0.5

Semester 2 (May to August) (14.5 credit hours)

ANESTH 5558 – Anesthesia and Coexisting Disease I 2
ANESTH 5576 – Pharmacology for Anesthesiologist Assistants II 2
ANESTH 5563 – Anesthesia Clinical Experience I 4

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<td>ANESTH 5541</td>
<td>Methods of Anesthesia I</td>
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<td>ANESTH 5503</td>
<td>Physics for Anesthesiologist Assistants</td>
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<td>ANESTH 5581</td>
<td>Fundamentals of Anesthetic Sciences II</td>
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<td>ANESTH 5528</td>
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Semester 3 (August to December) (19.5 credit hours)

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<td>ANESTH 5577</td>
<td>Methods of Anesthesia II</td>
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<td>ANESTH 5562</td>
<td>Anesthesia Clinical Correlation I</td>
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<td>ANESTH 5582</td>
<td>Fundamentals of Anesthetic Sciences III</td>
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<td>ANESTH 5538</td>
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Semester 4 (January to May) (17 credit hours)

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<td>Anesthesia Clinical Correlation II</td>
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<td>ANESTH 5567</td>
<td>Anesthesia Clinical Experience III</td>
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Semester 5 (May to August) (12 credit hours)

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<td>ANESTH 5569</td>
<td>Anesthesia Clinical Experience IV</td>
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Semester 6 (August to December) (17 credit hours)

ANESTH 5568 – Anesthesia Clinical Correlation III 1

ANESTH 5571 – Anesthesia Clinical Experience V 16

Semester 7 (January to May) (17 credit hours)

ANESTH 5570 – Anesthesia Clinical Correlation IV 1

ANESTH 5573 – Anesthesia Clinical Experience VI 16

Total program credit hours 115.5

Graduation Requirements:

- A 3.0 grade point average
- Successful completion of 115.5 credit hours of required coursework
- Successful completion of a minimum of 2000 clinical hours experiential education

The Master of Science in Anesthesia Program will graduate highly skilled and competent Anesthesiologist Assistants (AAs). AA’s are physician extenders licensed to work as anesthetists under the supervision of anesthesiologists. AA’s provide various services in hospitals, surgery centers, and other health care environments.

For application deadline and other information regarding the 27 month program and the AA profession please go to the UMKC MSA program website: www.med.umkc.edu/msa
Requirements for Graduation in the Master of Science Program in Bioinformatics

Student Learning Outcomes

Graduates of the M.S. in Bioinformatics Program will be able to:

1. Demonstrate lifelong learning skills by continually setting learning goals, pursuing them, and applying the knowledge to their profession
2. Recognize and use bioinformatic factors/data to influence health, disease, disability, and access to care
3. Establish productive collaborations with academia, industry, and government agencies
4. Communicate effectively with diverse groups of professionals
5. Demonstrate commitment to the principles of responsible research: honesty, efficiency, accuracy, and objectivity
6. Apply necessary skills to work constructively for the advancement of health sciences, including:
   o Design databases, plan new clinical trials, and conduct decision analyses based on existing clinical data
   o Implement electronic health record systems
   o Research and publish on the role of biomedical informatics in genetic research
   o Work across disciplines such as engineering, computer science, and health care
   o Contribute to advances in biomedical informatics

Program Requirements:

The Master of Science in Bioinformatics program has three areas of emphasis.

1. Computational: Emphasizes the development and use of the next generation of bioinformatics tools and software.
2. Clinical Research: Emphasizes the creation and understanding of data generated by patient care and clinical studies and on the statistical methodology needed for clinical research and improved bedside care.

Required Courses:
All students must take four core courses:

- Biostatistics 1 (MEDB 5101)
- Biostatistics 2 (MEDB 5102)
- Clinical Research Methods (MEDB 5110)
- Responsible Conduct of Research (SGS 5550A/B/C)

Additional required courses:
Computational Emphasis:
- Database Design/Management (COMP-SCI 470 OR COMP-SCI 471)
- Introduction to Bioinformatics (COMP-SCI 5566)
- Medical Informatics (MEDB 5120), and
- Machine Learning in Bioinformatics (COMP-SCI 5567)

Clinical Research Emphasis:
- Clinical Epidemiology (MEDB 5111)
- Clinical Trials (MEDB 5112)
- Overview of Health Services Research (MEDB 5113)
- Medical Informatics (MEDB 5120)

Genomic Emphasis:
- Cell and Molecular Biology I (LS-CBB 5530)
- Biochemistry I (LS-MBB 5561)
- Cell and Molecular Biology II (LS-CBB 5520)
- Biochemistry II (LS-MBB 5562)
- Evolution (BIOLOGY 5519)
- Database Design/Management (COMP-SCI 470 or COMP-SCI 471)
- Bioinformatics and Data Analysis (BIOLOGY 5525)

Other requirements:
6 credit hour thesis plus 2 electives (required for Genomic, option for Computational and Clinical Research)
3 credit hour practicum plus 1 elective (option for Computational and Clinical Research)

Suggested electives:
- Computational Emphasis:
  - Advanced Software Engineering (COMP-SCI 5551)
  - Knowledge Discovery & Management (COMP-SCI 5560)
  - Foundations of Computational Intelligence (COMP-SCI 5590CI)
  - Neural and Adaptive Systems (E&C-ENGR 5590NN)
  - Advanced Biomedical Signal Processing (E&C-ENGR 5590BP)
  - Biomedical Image Processing (E&C-ENGR 5590B)
  - Pattern Recognition (E&C-ENGR 5590PR)
  - Design and Analysis of Algorithms (COMP-SCI 5592)
  - Architecture of Database Management Systems (COMP-SCI 5570)
  - Large Scale XML Data Management (COMP-SCI 5590LD)
  - Clinical Epidemiology (MEDB 5111)
  - Evolution (BIOLOGY 5519)
  - Bioinformatics and Data Analysis (BIOLOGY 5525)

- Clinical Research Emphasis:
  - Qualitative Methods in Nursing Research (NURSE 5557)
  - Qualitative Research Methods (NURSE 5670)
  - Project Management (DSOM 5543)
  - Human Genome Epidemiology (MEDB 5114)

- Genomic Emphasis:
  - Mammalian Physiology (BIOLOGY 5534)
  - Neurobiology (BIOLOGY 5542)
  - Graduate Biophysical Principles (LS-CBB 5501)
  - Graduate Virology (LS-CBB 5504)
Membrane Biochemistry and Biophysics (LS-CBB 5566)
Developmental Biology (LS-MBB 5509)
Structure and Function of Proteins (LS-MBB 5565)

Graduation Requirements:
- A 3.0 grade point average
- Successful completion of 36 credit hours
  - 30 hours with 6 hour thesis (required for Genomic emphasis, option for Computational and Clinical Research emphases).
  - 33 hours with 3 hour practicum (option for Computational and Clinical Research emphases)
- All other requirements for graduation as stated in the General Graduate Academic Regulations and Information section of this catalog

Additional information and admission requirements may be obtained at the bioinformatics web site at http://www.med.umkc.edu/msb/

Graduate Certificate in Clinical Research

Student Learning Outcomes
Upon completion of the Graduate Certificate in Clinical Research students will be able to:
- Create and understand data generated by patient care and clinical studies.
- Integrate theory and research into advanced clinical practice.
- Apply scientific findings to clinical settings, evaluate outcomes and develop public health policy.
- Advance research in the biostatistics, public health sciences, health services delivery, preventive medicine and public health practice.
- Pose a researchable question, develop hypotheses, collect evidence, analyze and interpret data.
- Organize quantitative information and utilize it effectively.
- Draw conclusions after weighing evidence, facts and ideas.
- Convey findings through written and oral communication.

Certificate Requirements:
The Graduate Certificate in Clinical Research curriculum includes 15 credit hours of required coursework. Students concurrently completing a clinical training program must provide documentation of approval from their clinical program director each semester.
The courses are:
Biostatistics I (MEDB 5101)
Clinical Research Methods (MEDB 5110)
Clinical Epidemiology (MEDB 5111)
Clinical Trials (MEDB 5112)
Overview of Health Services Research (MEDB 5113)
Completion Requirements:

- Students must maintain a 3.0 GPA while enrolled.
- The minimum acceptable grade for the required courses is B-.
Music and Dance, Conservatory of

Conservatory of Music and Dance
Performing Arts Center
4949 Cherry Street
(816) 235-2900
conservatory@umkc.edu
http://www.umkc.edu/conservatory/

Mailing Address

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Conservatory of Music and Dance
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Kansas City, MO 64110-2499

Dean:
Peter T. Witte

Associate Dean for Graduate Studies and Curriculum:
William A. Everett

Associate Dean for Undergraduate Studies:
Timothy Timmons

Associate Dean for Faculty Affairs:
Mary Pat Henry

Associate Dean for Special Projects:
Robert Weirich

Associate Dean for Performance/Operations and Enrollment Management:
James Snell  http://www.umkc.edu/lookup/search.asp?LastName=snell

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  - Master of Music Education Required Courses
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- Graduate Courses

History
The Conservatory is an active participant in mid-America's most important cultural center, Kansas City. This geographical setting provides students with the opportunity to hear and work with the Conservatory's own talented artist-faculty and internationally known artists who perform in the area.

The Conservatory of Music and Dance traces its lineage to a merger of two early Kansas City conservatories, the Kansas City Conservatory of Music and the Horner Institute of Fine Arts. A second merger in 1959 joined the Conservatory with the University of Kansas City. In 1963, the private University of Kansas City became a part of the state university system as UMKC, with the Conservatory as a component college.

Accreditation
The Conservatory's degree programs are accredited by the National Association of Schools of Music (1933), the National Association of Schools of Dance (2008), and the National Council for Accreditation of Teacher Education (1961).

Advising
All undergraduate and graduate students should be advised by the appropriate student services coordinator or associate dean prior to any registration. All music education or therapy students should see a faculty member in music education/therapy for advising.

Barr Institute for American Composition Studies
The UMKC Conservatory's Barr Institute for American Composition Studies was formed through the generosity of Howard and Patricia Barr for the purpose of:
1. Supporting the acquisition, care, preservation, use and promotion of existing materials related to the period of American composition between 1890 and thereafter, excluding the art of jazz and its derivatives.
2. Promoting individual research initiatives related to the historical and theoretical underpinnings of post-1890 American Classical Music.
3. Supporting new composition efforts including commissions, theses and dissertations by composition students.
4. Supporting collaborative and interactive efforts to study new music.
Ensembles
The Conservatory offers students the opportunity to participate in a variety of ensembles that perform throughout the year. More than 20 ensembles are open by audition to all University students who can qualify. The ensembles include:

- Conservatory Orchestra
- Chamber Orchestra
- Percussion Ensemble
- Jazz Orchestra
- Jazz Ensemble
- Wind Symphony
- Wind Ensemble
- Bella Voce
- Conservatory Concert Choir
- Conservatory Singers
- Canticum Novum
- Musica Nova
- Conservatory Opera

Professional Organizations
The Conservatory sustains chapters of national professional and honor fraternities, including Sigma Alpha Iota and Mu Phi Epsilon, and the national honor society, Pi Kappa Lambda. The Conservatory maintains an affiliation with the National Federation of Music Clubs, Collegiate Music Educators National Conference, and student chapters of the American Choral Directors Association and the International Trumpet Guild.

Community Music and Dance Academy
The Conservatory's Community Music and Dance Academy has the mission of bridging the national reputation and excellence of the UMKC Conservatory of Music and Dance with the local musical needs of the Kansas City community. The Academy currently offers private and group instruction to 600 area musicians and dancers; coordinates camps and festivals for the Kansas City area and provides professional development through workshops and in-service to area educators and therapists.

The instructors in the Community Music and Dance Academy are professional educators, therapists, musicians and dancers. Many have advanced degrees or are current graduate students or professors at the University of Missouri-Kansas City Conservatory of Music and Dance. Academy faculty have trained with professional musicians within and outside the Conservatory and regularly perform as soloists or with ensembles locally, nationally and internationally. Some have even published and recorded their work. Most are active members of professional music organizations at the local, state and national levels.

Scholarships or Special Awards
Scholarships are available to Conservatory students and are awarded on the basis of ability (demonstrated at the audition) and academic standing. Scholarships are awarded for one year but can be renewed annually, provided students maintain the appropriate grade level, continue
satisfactory performance in the major performance area, and participate in major ensembles as prescribed.

Applicants for Conservatory scholarships must complete all regular admissions procedures in order to be considered.

In accordance with the code of ethics of the National Association of Schools of Music, the acceptance of financial aid by a candidate is considered a declaration of intent to attend the institution, and each candidate will be so informed. The code further declares that such a student may not consider any other offer from an institutional member of the NASM except with the written consent of the music executive of the first institution. Similarly, a transfer applicant cannot be considered for financial aid without the written recommendation of the head of the music department from which the transfer is being made.

Undergraduate Programs
The Conservatory of Music and Dance offers the bachelor of fine arts in dance, bachelor of arts, bachelor of music and bachelor of music education degrees. The specific degrees and their requirements are listed on the following pages.

Admissions: New Students
New students must meet the general requirements for admission to the University. Additionally, a 10-minute audition is required in the applicant's major performance field to determine proficiency and placement in the appropriate applied level for music majors. Dance auditions consist of participation in a ballet class and a modern class.

Auditions serve as criteria for admission and for scholarships and are held during the late fall and early winter. Auditions are advisory in nature regarding performance level. It is preferred that auditions take place at the Conservatory. In cases of extreme distance or scheduling problems, a recorded audition may be submitted by the applicant.

Admissions: Transfer Students
All undergraduate transfer students must:
1. Be admitted to the University and the Conservatory.
2. Present complete official transcripts.
3. Audition for applied placement.
4. Take a theory examination for validation of theory level (Music majors only).

Requirements for Placing Students in Applied Music Courses
Placement
1. All new students (including transfers) must audition before the appropriate faculty for advisement and placement. The final determination of course number and hours of credit is made at the first jury. (This placement could range from a non-credit program to the 402 applied level.)
2. All readmitted students will be assigned a level (major or secondary), a course number and the appropriate hours credit based on their last jury at UMKC. Any students who
have interrupted their applied studies at UMKC for two or more consecutive semesters (not counting the summer session) must re-audition before the appropriate faculty.

Juries
1. Periodically, as required by the performance divisions, all students taking lessons for credit will perform before a jury composed of the appropriate faculty, with the exception of levels 100B and 100C. If a jury is not required in a given semester, the grade will be assigned by the applied teacher. Students who have presented a degree-plan recital (an evaluated recital) for the current semester will be assigned a recital grade without a jury. Recital and jury grades are assigned according to the average of the teacher's grade (50 percent) and the jury committee's grade (50 percent).
2. Final approval for advancement is subject to the action of the appropriate jury. If the jury decides that students have not made satisfactory progress, the students will be required to repeat a level, even though they might receive a passing grade.
3. Upon completion of the 202 applied level, all students must have applied jury approval to move on to the 301 applied level of study. All students seeking a bachelor of music degree in performance must petition the appropriate applied jury for permission to continue in the degree program at the junior level.

Levels
1. Students can request a change of level from secondary to major, or from major to secondary, for the next term but not the current term. In any case, students must complete the total number of hours required for the degree in applied music. Credit hours in major applied-music studies earned at another institution will be validated according to the approval of the appropriate jury.
2. Skipping a class number is not allowed. Students advance either by satisfactory performance at a regular jury or by credit obtained through examination. The UMKC Registration Office should be contacted for details and actual registration for receiving credit through examination.

Specific degree requirements regarding applied music
1. Bachelor of Music. All bachelor of music students, except composition majors, must complete Applied Music Studies 402. A graded public recital is required. Music Theory majors must complete Applied Studies 402 (2 credit hours), with participation in CONSVTY 498 required in lieu of the graded public recital.
2. Bachelor of Music in Music Composition. All freshman and transfer students who are applying for admission as composition majors must take an applied audition as part of the application and admissions process. Results of the audition will be communicated to the composition coordinator, and will be used as part of the overall decision-making process, together with the student's portfolio, transcripts and supporting documents. In cases where the audition is not acceptable or where there is no room for that student in a given applied studio, the composition faculty may elect, if the other portions of the application are sufficiently strong, to recommend admission for the student on a provisional basis. The student must re-audition after a maximum of two semesters of study; if the situation is not resolved by the end of the first year, the student may then be denied composition major status and/or music major status.
3. All bachelor of music education students must complete Applied Music Studies 401 (secondary). A studio recital is required.
4. All bachelor of music education-therapy students must complete Applied Music Studies 301 (secondary).
5. All bachelor of arts music students must complete Applied Music Studies 301 (secondary).

Missed lesson and tardy policy
Students who are late for lessons, or who miss them, do so at their own loss. Lessons missed for personal reasons of the instructor will be made up. Lessons missed because of students' illness will be made up at the discretion of the instructor.

Recital Requirements
1. Performance majors are required to perform in at least one Conservatory student recital each semester. Non-performance majors are expected to participate in student recitals at the request of the applied music teacher. A public senior recital at least 55 minutes long is required of all undergraduate performance majors. This recital will be in lieu of the jury examination for that semester.
2. Bachelor of music education majors with choral emphasis or instrumental emphasis are required to perform a studio recital at least 30 minutes long. Students may petition their division if they want to give a public recital. The public recital may be graded at the option of students and the division. This grade will be in lieu of the jury at the option of the division.
3. Students must give the required recital during a semester that they are enrolled in a 400-level applied music studies course.
4. Bachelor of music majors with a jazz and studio music emphasis are required to present a public senior recital at least 50-minutes in length during the 402J semester. The program will include works arranged or composed by the student, chosen from a portfolio submitted to the appropriate jazz/studio music and composition faculty for approval. The student will perform works from the jazz repertoire on his or her major instrument.
5. For dance requirements, see Bachelor of Fine Arts in Dance page.

Ensemble Requirements
1. Participation in at least one ensemble is required each semester that students are enrolled full-time (12 hours or more) on campus, as required by the students' degree programs, except composition majors (see music composition programs for required courses).
2. Student participation in Conservatory ensemble rehearsals and performances shall take precedence over non-Conservatory presentations.
3. A minimum of eight semesters of ensemble credit is required for graduation on any degree plan, except for the music education degree with emphasis in music therapy, which requires six semesters.
4. All undergraduate students enrolled in applied lessons on orchestral instruments must be enrolled in a major instrumental ensemble each semester, except composition majors (see music composition program for required courses), and music education students during the student-teaching semester.
5. All undergraduate Conservatory students whose major instruments are orchestral and who are enrolled in six or more hours must be enrolled in a major instrumental ensemble. This applies to all degree programs.

6. Bachelor of music majors with jazz and studio emphasis must participate in either Jazz Orchestra or Jazz Ensemble each semester in residence. These students also will be required to participate in a major ensemble as stated in numbers 1-5 of Recital Requirements.

Recital and Concert Attendance
Undergraduate Conservatory students in BA Music, BM Jazz, BM Organ Performance, BM Theory and BME Choral are required to register for CONSVTY 154 and to be an audience member at 12 live performances, lectures or master classes in the performing arts each semester until degree requirements are met. Four of these must be Conservatory events, four must be approved by faculty of the student's major division, and four may be chosen at the student's discretion. Events chosen at the student's discretion may include concerts/lectures needed to fulfill the requirements of a Conservatory academic course. A part-time Conservatory student may spend two semesters of an academic year in completing one credit hour.

Degree Program Prerequisites
1. The student should be able to qualify for CONSVTY 101, Applied Music Studies for Freshmen, for two hours credit, in the major performance area. The student also should have some familiarity with a keyboard instrument.
2. Previous experience in music, such as high school band, orchestra or chorus, is desirable.
3. Interest in a field of study outside of music is desirable.

Certification Procedures
Upon completion of the bachelor of music education degree, students must initiate the application for Missouri and Kansas certification in the Student Services Office of the School of Education. Applications should be filed during the student teaching semester. Certification is not automatic.

Elementary and secondary student teaching are required for the K-12 certificate. All prospective teachers must take and receive a satisfactory score on the following tests for state certification: For Missouri certification, students must receive a satisfactory score on the Praxis II professional knowledge.

For Kansas certification, students must receive satisfactory scores on the Pre-Professional Skills Test (PPST) in reading, writing and mathematics, and the Praxis II core test.
**Graduate Programs**
The Conservatory of Music and Dance offers graduate programs leading to the following degrees: master of arts in music; master of arts in music -- music therapy; master of music in music composition, conducting, musicology, music theory and performance; master of music education; and doctorate of musical arts in music composition, conducting and performance. The Conservatory participates in the Interdisciplinary Ph.D. program for students who desire music education as their coordinating discipline and education as a co-discipline. Graduate students in the Conservatory are also subject to the regulations, listed in the General Graduate Academic Regulations and Information section of this catalog.

**Interdisciplinary Ph.D. study in Music Education**
The Conservatory participates in the Interdisciplinary Ph.D. Program for students who desire music education as their coordinating discipline and curriculum and instruction as a co-discipline. Students with a background in music therapy can elect music education as their coordinating discipline and choose from possible co-discipline options in consultation with the music therapy faculty.

Application is made through the School of Graduate Studies.

**Graduate Academic Regulations**
Admission to the Conservatory of Music and Dance does not constitute an approval of major. Graduate students attending the Conservatory of Music and Dance do not have a major until divisional requirements are met and an approved planned program of study is filed.

**Requirements for Admission**
All students applying for admission must:

- Complete an application for admission.
- Submit transcripts of all prior work.
- Possess a minimum overall grade-point average of 3.0 for all prior coursework.
- Perform an applied audition, the purpose of which is diagnostic only, except as indicated in certain divisional standards.

Meet admission standards listed below:

- **Choral Conducting**
  - Master's and doctoral degrees: live interview/choral conducting students are required to audition before enrolling in applied lessons, but may be admitted without an applied audition.
- **Orchestral/Wind Conducting**
  - Master's and doctoral degrees: live interview/applied audition.
- **Master of Arts**
  - Achieve Conservatory 302 at the audition or submit area of concentration approval form.
- **Music Composition**
  - Master's and doctoral degrees: submit portfolio of compositions for evaluation.
• Music Education
  o Master's degree: document completion of a bachelor's degree in music education or the equivalent/have an acceptable interview with faculty from this discipline/provide evidence of musical proficiencies applicable to music education settings.
• Musicology
  • Master's degree:
    a. Possess a bachelor's degree in music.
    b. Possess a minimum grade-point average of 3.0 in undergraduate music history courses.
    c. Submit examples of writing. (The writing sample should be either 1) a research paper on some aspect of the major field - can be an earlier term paper from the baccalaurette degree or 2) a senior project from the baccalaurette degree.)
    d. Possess reading knowledge in at least one language other than English.
• Music Theory
  • Master's degree:
    a. Possess a bachelor's degree in music theory or the equivalent.
    b. Possess a minimum grade-point average of 3.0 in undergraduate music theory courses.
    c. Perform a keyboard proficiency examination.
    d. Submit examples of writing.
    e. Translate a selection into English from either French or German using a dictionary.
• Music Therapy
  • Master's degree:
    a. (a) Possess a bachelor's degree in music therapy from an NASM-accredited institution or the equivalent. (b) Possess a bachelor's degree in music or music education from an NASM-accredited institution or the equivalent. Students who do not have the appropriate music therapy professional status must pursue a music therapy equivalency program of study that is inclusive of all undergraduate music therapy requirements before being admitted to the master's program. Provisional admission to the master of arts in music-music therapy degree may be granted by the music therapy faculty.
    b. Have an acceptable interview with one or more members of the music therapy faculty.
    c. Demonstrate leadership ability and music skills through a successful music therapy clinical presentation in a music therapy setting. This demonstration may consist of a live presentation observed by UMKC music therapy faculty, or a videotape of a session submitted to the music therapy faculty.
• Performance
  • Master's degree: achieve Conservatory 5501 (Graduate Masters Performance) at the audition.
  • M.M. in Performance: Voice Emphasis, Opera Track: achieve Conservatory 5501 (Graduate Masters Performance) at the audition; audition must include four arias in four different languages and styles.
• Doctoral degree: achieve Conservatory 5601 (Graduate Doctoral Performance) at the audition.

• Performer's Certificate
  1. Possess a bachelor's degree in music.
  2. Achieve Conservatory 5501 at the audition.
  3. Interview with faculty/coaches in the applied area.
  4. Submit a standard resume including performance experiences.

• Artist's Certificate
  1. Possess a master's degree in music or the appropriate equivalent as determined by applied faculty in the area.
  2. Achieve Conservatory 5601 at the audition.
  3. Interview with faculty/coaches in the applied area.
  4. Submit a standard resume including performance experiences.

Matriculation Examination
The matriculation exam applies to all students whose degree program requires a 5500-level music history and/or music theory class. The matriculation examination in dictation, music theory and music history must be completed by students before enrolling for the term of admission. Students must pass all sections of the exam or complete review courses (421A/B, 497JA/B with a grade of B- or higher) before enrolling in 5500-level theory and history courses.

Students in the MM in Performance: Vocal Emphasis (including Opera Track) must demonstrate proficiency in Italian, German, and French lyric diction.

Graduate assistantships are available with stipends varying for the academic year depending upon assignment. Assistantships are available in accompanying, assessment, conducting, instrumental ensembles, jazz and studio music, keyboard skills, music appreciation, music composition, music education, musicology, music theory, percussion, pep band, piano, saxophone, recording/lighting, stage management and voice. Recipients are expected to devote 10 hours a week in assigned duties. Applicants for assistantships should have and maintain a minimum 3.0 (B) grade-point average.

Students who wish to apply for assistantships or fellowships should visit Conservatory Admissions for application materials and a list of current positions. Applications must be submitted by March 1. Awards will be made by April 1, and a letter of acceptance or rejection sent to the applicant by April 15. Awarding a graduate assistantship is contingent upon admission.
General Graduate Degree Requirements

RETENTION AND MINIMUM GRADES

Conservatory graduate students must maintain a 3.0 graduate grade-point average in order to remain in good standing. A maximum of two courses not exceeding three hours of credit in each course at the 5500 or 5600 level in which C's are received shall be acceptable for the planned program of any advanced degree. No grade lower than a 3.0 (B) is acceptable in the major field.

All graduate students in the master of music and doctor of musical arts performance degree programs must enroll in Conservatory Wind Ensemble, Conservatory Wind Symphony or Conservatory Orchestra for a minimum of two semesters if their major instrument is an orchestral instrument. Master of music students in vocal performance must participate in Bella Voce, Conservatory Concert Choir or Conservatory Singers for a minimum of two semesters.

All graduate students in the doctor of musical arts conducting degree program are required to participate in at least one major ensemble, as advised by the conducting faculty, during each term of enrollment as a full-time student.

Master's students in musicology and theory, as well as doctoral students in composition, conducting and performance must satisfy language requirements for the degree.

For all M.M. students in Musicology, a grade of B- (2.7) or better in a first-semester, sophomore-level foreign language course is required. Students must study French, German or Italian unless the substitution of another language is approved by the supervisory committee. A language proficiency test may be substituted for course requirements, provided it documents language capabilities equivalent to the completion of a first-semester, sophomore-level, course. This must be approved in advance by the supervisory committee. In such cases, a letter describing the process and results must be forwarded to the chair of the supervisory committee, the musicology area coordinator, and the Conservatory Associate Dean for Graduate Studies and Curriculum. For master's students in theory as well as doctoral students in conducting and performance who speak English as their first language, a grade of B- (2.7) or better in a first-semester, sophomore-level foreign language course or C (2.0) work or better in each of two junior-level courses or in one senior-level literature or civilization course is viewed as an adequate demonstration of
foreign language skills. Students must study French, German or Italian unless the substitution of another language is approved by a minimum of two-thirds of the supervisory committee. A language proficiency test, if provided by language instructors or departments, may be substituted for course requirements provided it documents language capabilities equivalent to the previously described courses. In such cases, a letter from the university language professor, describing the process and results, must be forwarded to the Conservatory Associate Dean for Graduate Studies and Curriculum. Doctoral students in conducting or performance who speak English as a second language must achieve a score of 600 on the TOEFL exam. If students have not completed a TOEFL exam with a score greater than 600 before arriving at UMKC, they must complete a language test in English provided by UMKC's Applied Language Institute. All courses recommended by ALI must be successfully completed and a score of 600 on the TOEFL, or the equivalent as determined by ALI must be achieved. This policy applies to all ESL students regardless of the number of years they have studied in the United States.

The DMA in Music Composition program does not have a foreign language requirement.

**Master's Degrees**
The master of arts, master of music and master of music education degree programs require a minimum of 30 semester hours; at least 18 hours must be numbered 5500 or above. No 300- or 400-level courses may be included in a master's program if required in the comparable baccalaureate degree at the Conservatory of Music and Dance. CONSVTY 5599 (Thesis), CONSVTY 5598 (Research Problems) or CONSVTY 5589 (Academic Portfolio) is required on all degree programs except performance. With the approval of the supervisory committee and the principal graduate adviser, students can transfer hours equal to 20 percent of the planned program from an accredited institution other than UMKC, but any such transfer credit must be less than seven years old at the time the degree is awarded. The official time limit for the completion of the master's degree is seven years.

**STUDENT LEARNING OUTCOMES**
The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of master's level music students. To that end, the Conservatory endorses the development of

- Individual talents, interests and philosophies which can be used creatively both to preserve and extend our cultural heritage.
- Professional competence in such disciplines as composition and performance interpretation and the evaluation of knowledge.
- Scholarly competence in the organization, interpretation and evaluation of knowledge.
- Professional competence in the communication and dissemination of knowledge.
- Individuals with the potential to solve contemporary problems in various aspects of music.

**COMPREHENSIVE EXAMINATION**
The comprehensive examination must be taken during or after the last term of coursework. It is designed to last a total of eight hours and the content is at the discretion of the supervisory committee. The examination is offered during the fifth week of fall and spring semesters and may be scheduled during a summer session with the approval of the supervisory committee. If
taken in the summer, the questions may not be graded until the Fall Semester. Students must be enrolled during the term the comprehensive examination is administered.

**Student Learning Outcomes**
The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of master's level music students. To that end, the Conservatory endorses the development of

- Individual talents, interests and philosophies which can be used creatively both to preserve and extend our cultural heritage.
- Professional competence in such disciplines as composition and performance interpretation and the evaluation of knowledge.
- Scholarly competence in the organization, interpretation and evaluation of knowledge.
- Professional competence in the communication and dissemination of knowledge.
- Individuals with the potential to solve contemporary problems in various aspects of music.

**Doctor of Musical Arts**
Ordinarily, doctor of musical arts candidates will be expected to show from 75 to 90 hours of approved coursework beyond the bachelor's degree (including the master's degree) on their planned programs. Approximately 80 percent of the coursework on the planned program must be at the graduate level (5500-5600).

If it is of acceptable quality and appropriate to the student's program, graduate credit not to exceed more than one-half the total credit earned beyond the bachelor's degree may be transferred from another institution to a doctoral program. Except for courses included in the earned master's degree, work done at institutions other than UMKC must have been completed within nine years of the awarding of the degree. A D.M.A. or Ph.D. student must take and pass the doctoral comprehensive examination and advance to candidacy within five years from the beginning of doctoral coursework (within four years if entering with a master's degree in the same or closely related field). After the establishment of degree candidacy, a maximum of five years will be allowed for completion of degree requirements. All D.M.A. students must demonstrate proficiency in one foreign language and satisfy the residency requirement.

Residency for the D.M.A. cannot begin until the first term of enrollment as a D.M.A. student at the Conservatory. The residency requirement for the D.M.A. may be satisfied in any one of the following ways: 1) two adjacent semesters with a minimum of nine hours each, or 2) one semester with a minimum of nine hours and two summer sessions with a minimum of five hours each, provided that the full-time semester is adjacent to one of the summer sessions [it is expected that the summer sessions will be consecutive], or 3) completion of 24 hours within 18 consecutive months.

**Student Learning Outcomes**
The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of doctoral level music students. To that end, the Conservatory endorses the development of
• Intellectual awareness and curiosity sufficient to predict continued growth and contribution to the discipline.
• Significant accomplishment in performance, composition, scholarship, music education or conducting.
• A knowledge of the techniques of music theory sufficient to perform advanced analysis.
• A knowledge of representative literature and composers of each major period of music history.
• A knowledge of general bibliographic resources in music.
• Considerable depth of knowledge in some aspect of music, such as historical period, an aspect of theory, performance practice or compositional styles.
• Sufficient writing and speaking skills to communicate clearly and effectively to members of the scholarly community and to the wider community.
• A reading knowledge of one or more foreign languages, or other appropriate research skills.

The Supervisory Committee
The supervisory committee for students seeking the doctor of musical arts shall consist of three faculty members who will approve the planned program of study and the doctoral research plan, and agree to serve as the three faculty responsible for writing and grading the major portion of the doctoral comprehensive examination.

Comprehensive Examination (for students entering before fall 2011)
Before taking the written comprehensive examination, the planned program, residency, language requirement, coursework, doctoral research plan and other divisional requirements must be completed. The student must be enrolled during the term the comprehensive examination is administered and 30 consecutive days are allowed for its completion. This examination of 24 hours consists of 18 hours of in-depth scrutiny of the major field, prepared and graded by the supervisory committee, and an objective examination covering music history and music theory, prepared and graded by faculty from the Musicology and Music Theory areas. The integrated music history-music theory examination consists of a research essay to be completed over the sixth weekend and a proctored component administered on the seventh Saturday of the fall and winter semesters. ALL parts of the comprehensive examination MUST be taken at UMKC. The integrated music history-music theory exam affects students who enter the DMA program beginning in fall 2006. Each section of the music theory and music history examinations must be passed with a grade of B- or better. If a student does not achieve a B- or better on any section of these exams, he or she must retake that section. The comprehensive examination must be completed successfully before the dissertation topic is approved. Performance students must also successfully complete their comprehensive exams before the final recital is given. Students selecting doctoral research options (CONSVTY 5697 and CONSVTY 5698) instead of the dissertation must complete at least one project after comprehensive exams are passed.

The comprehensive examination committee for students seeking the doctor of musical arts shall consist of three faculty members of the supervisory committee and any other faculty who have contributed and graded questions.
Comprehensive Examinations (for students entering fall 2011 or later)

First Exam Procedures

The First Exam focuses on Music History and Theory and is designed to assess students’ foundational knowledge for advanced study. The exams will be given the seventh Saturday of the spring semester and students will take the exam in their second full year of coursework. The exams will consist of two three-hour exams that cover an integrated application of ideas from music history and music theory and will be designed, proctored, and graded by all fulltime faculty members in those two areas. Based on the collective recommendation of the faculty, students will be assigned a grade of high pass, pass, or fail for each section of the exam. Students who fail to pass any portion of the exam will be given feedback as to the recommended courses needed to make up any deficiencies in their third year of coursework and will be allowed to retake those portions the following year. Students must fully pass the First Exam to be eligible to take the Second Exam and continue to candidacy.

Second Exam Procedures

The Second Exam tests students’ understanding of their chosen field of study and are required for advancement to candidacy. These exams are held the fifth week of both the Fall and Winter/Spring semesters and must be taken after the end of coursework and before work begins on doctoral projects. Students wishing to take the exams should notify their committee chair of their intentions and submit a complete Comprehensive Exam Request Form to the graduate advising office by at least the last week of classes the semester before they take the exam. Testing is proctored from 9:00 until 5:00 each day of that week, and students are responsible for arranging their schedules and signing up for the times in which they plan to take the test.

The Second Exam is administered by a D.M.A Committee made up of a faculty chair and two other faculty members. Students are responsible for selecting their chairs, who normally will be the principle instructor or director of research, and then the remainder of their committee in consultation with the chair. The committee members are communicated to the advising office through signatures on the Comprehensive Exam Request Form.

Each D.M.A. student is given eight hours in which to answer questions submitted by the three members of his or her committee. Each member of the committee must contribute to the Second Exam, and while the number of hours for questions given to each member is at the chair’s discretion, typical practice is four hours for the chair and two hours for each member (Each “hour” of questions should take approximately one hour to complete). Committee members must submit their questions to the chair by the Wednesday of the third week of the semester. The chair then submits the entire exam to the Comprehensive Exam Coordinator by the end of the third week of the semester. It is the chair’s responsibility in consultation with the committee to ensure that there are no overlaps in questions and that the exam adequately examines the field of study. Content of the examination questions should reflect the content of study specific to each student’s degree. Members of the D.M.A. Committee are responsible for determining the appropriate focus for questions. Those questions should not function as a retesting of course
information, but as an assessment of a student’s understanding and ability to connect and apply course content more broadly.

Grading for the Second Exam

Once a student has completed the exam, the Comprehensive Exam Coordinator distributes written responses to the faculty responsible for each question. That faculty member grades the responses and relays their recommendation of high pass, pass, or fail to the committee chair and the Comprehensive Exam Coordinator. Students must receive a grade of pass or high pass on each question to pass the Second Exam and advance to candidacy. Students are allowed to retake portions of the exam they failed one time, and the format of that retest is at the discretion of the committee member responsible for the question.

The Comprehensive Examinations consist of three separate exams.

Third Exam Procedures

At the conclusion of all doctoral points needed for the D.M.A. degree and contingent upon successful completion of the Second Exam, members of the student’s D.M.A. Committee will reconvene for a two-hour oral defense of the work done during candidacy for the degree. In the case of areas that require dissertations, the dissertation defense acts as the Third Exam. For all other areas, the Third Exam is expected to consist of questions synthesizing the student’s work in all areas of study in their doctoral documents and/or performances. The Committee Chair will schedule the Third Exam, which may be postponed at the Chair’s discretion. The Third Exam is the last step in the conferral of D.M.A degrees.
Master of Music in Music Composition Required Courses

CONSVTY 5500-CONSVTY 5600  Music History  3
CONSVTY 5500-CONSVTY 5600  Music Theory  3
CONSVTY 5531  Advanced Orchestration  3
CONSVTY 5533  Advanced Composition (three courses)  9
CONSVTY 5593  Introduction to Research and Bibliography in Music  3
CONSVTY 5599  Thesis (a)  4
Area of Concentration (b)  5
Electives  2
Total hours (minimum)  3 2

(a) An appropriate composition. A score must be filed in the Conservatory Library.
(b) The Area of Concentration is developed by the student with guidance and approval of the supervisory committee as a part of the planned program. Examples include Applied Music/Ensemble Performance, Music Scholarship, Conducting (Choral and/or Instrumental), Music Technology and interdisciplinary courses.

Master of Music in Conducting Required Courses

CONSVTY 5582  Advanced Choral Conducting (two semesters)  4
- and -
CONSVTY 5587  Seminar in Choral Literature (two semesters)  4
-or-
CONSVTY 5583  Advanced Instrumental Conducting (any two from 5583 ABCD)  4
-and-
CONSVTY 5586B  Seminar in Orchestral Literature  4
-or-
CONSVTY 5583  Advanced Instrumental Conducting (any two from 5583 ABCD)  4
CONSVTY 5582  Advanced Choral Conducting  2
-and-
CONSVTY 5586A  Seminar in Orchestral Literature  4
And the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 400-5500A</td>
<td>Applied Music (a)</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music History</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5593</td>
<td>Introduction to Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5597A</td>
<td>Master's Conducting Performance (b)</td>
<td>4</td>
</tr>
<tr>
<td>CONSVTY 5598</td>
<td>Research Problems</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives: 1-5

Total hours (minimum) 30

(a) (Choral Track Voice Requirement) The applicant must enroll in applied voice the first term of registration as a full-time, degree-seeking student. Progress will be measured by the following:
1. If the applicant qualifies for applied voice at the 5500A level, a minimum of two credit hours is required.
2. If the applicant does not qualify for applied voice at the 5500A level, the student must enroll in applied voice for three terms or until completion of the 5500A level.

(a) (Instrumental Track Applied Requirement) The applicant must enroll in applied music the first term of registration as a full-time, degree-seeking student. Progress will be measured by the following:
1. If the applicant qualifies for applied music at the 401 level, a minimum of two credit hours is required.
2. If the applicant does not qualify for applied music at the 401 level, the student must enroll in applied music for a minimum of two terms, until completion of the 401 level, or until graduation.
3. In addition, instrumental conducting majors will be required to enroll in two terms of applied music on other appropriate instruments, as advised by the conducting faculty.

(b) One public performance is required. One rehearsal or lecture demonstration is required.
**Master of Music Education Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5500, CONSVTY 5600</td>
<td>Music History or Theory</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5574</td>
<td>History and Philosophy of Music Education</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5589</td>
<td>Academic Portfolio</td>
<td>3</td>
</tr>
</tbody>
</table>

-or-

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5599</td>
<td>Thesis</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5594A</td>
<td>Introduction to Descriptive and Experimental Research in Music</td>
<td>3</td>
</tr>
<tr>
<td>Methods/Materials Advanced Courses</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

(e.g., Conservatory 5540x, 5582x, 5583x, 5586x, 5587x, Summer Workshops)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electives</td>
<td>10</td>
</tr>
</tbody>
</table>

**Total hours (minimum)** 30

(a) MME students wishing to satisfy the applied musicianship requirement by taking lessons in their undergraduate applied area will be required to perform an applied audition prior to enrolling in the first term. Typically, these lessons will occur on a TBA arrangement with applied faculty during the fall or spring semesters. These students must complete a semester of applied lessons at no lower than the 402-2 level. Other students who wish to refine applied skills through pedagogy study (e.g., CONSVTY 491/ CONSVTY 5591 or summer workshops) or through applied study on other instruments (e.g., CONSVTY 5500C) will not be required to audition.
Master of Music in Musicology Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5500A</td>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music History (four courses, two periods and two of choice)</td>
<td>12</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5591K</td>
<td>Pedagogy of Music History</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5593</td>
<td>Introduction to Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5693</td>
<td>Advanced Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5598</td>
<td>Research Problems</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5599</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Eledtives</td>
<td></td>
<td>1-3</td>
</tr>
</tbody>
</table>

Total hours (minimum) 35

(a) Elective credit may be substituted if CONSVTY 5500A (Applied Music) is achieved at the audition.

Language Requirements: For all M.M. students in Musicology, a grade of B- (2.7) or better in a first-semester, sophomore-level foreign language course. Students must study French, German or Italian unless the substitution of another language is approved by the supervisory committee. A language proficiency test may be substituted for course requirements, provided it documents language capabilities equivalent to the completion of a first-semester, sophomore-level course. This must be approved in advance by the supervisory committee. In such cases, a letter describing the process and results must be forwarded to the chair of the supervisory committee, the musicology area coordinator and the Conservatory Associate Dean for Academic Studies.

Supervisory Committee: The Supervisory Committee, which consists of at least two musicology faculty plus one other member, is assigned to approve the planned program and prepare and grade the comprehensive examination. The committee must be selected before the student completes two terms of enrollment.

Graduate Approval of Major: Complete CONSVTY 5593 (Introduction to Research and Bibliography in Music) with a grade of A; complete one graduate-level music theory course and one graduate-level music history course with a grade of A in each course; and present a scholarly paper before a public forum on a topic agreed to in advance by the musicology faculty (the duration of the presentation is to be at least 20 minutes).
**Master of Music in Performance: Keyboard Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music History</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5501 Applied Study(a)</td>
<td>Applied Study</td>
<td>4</td>
</tr>
<tr>
<td>CONSVTY 5593 Introduction to Research and Bibliography in Music</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5591E Advanced Pedagogy I – Piano</td>
<td>Advanced Pedagogy I – Piano</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5597 Master's Recital</td>
<td>Master's Recital</td>
<td>(two required) (c) 8</td>
</tr>
<tr>
<td>CONSVTY 305G Principles of Chamber Music</td>
<td>Principles of Chamber Music</td>
<td>2</td>
</tr>
</tbody>
</table>

**Electives(b)** 10

**Total hours (minimum)36**

(a) A minimum of one semester of applied music (5501) is required before the first recital. CONSVTY 5501 or CONSVTY 5597 is required each semester of enrollment until the recital requirement is met.

(b) A maximum of four elective credits may be in the performance area.

(c) Piano students are required to present two public recitals and two collaborative recitals. The collaborative recital requirement is part of the applied piano lesson - no extra credit is received.
### Master of Music in Performance: Orchestral Instruments and Guitar Emphasis Areas

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music History</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5501</td>
<td>Applied Study (a)</td>
<td>4</td>
</tr>
<tr>
<td>CONSVTY 5593</td>
<td>Introduction to Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5597</td>
<td>Master's Recital (two required)</td>
<td>8</td>
</tr>
<tr>
<td>CONSVTY 305</td>
<td>Principles of Chamber Music</td>
<td>4</td>
</tr>
<tr>
<td>Electives (Non-applied music courses)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Total hours (minimum)</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

(a) A minimum of one semester of applied music (5501) is required before the first recital. CONSVTY 5501 or CONSVTY 5597 is required each semester of enrollment until the recital requirement is met.

**Notes:** All students whose major is an orchestral instrument must be enrolled in Conservatory Wind Symphony, Wind Ensemble or Conservatory Orchestra for a minimum of two semesters. Not more than one half the total hours counted toward the planned program may be in applied music and recitals. A maximum of two semesters of an ensemble can be counted on any master's planned program of study.
**Master of Music in Performance: Voice Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music History</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5501</td>
<td>Applied Study (a)</td>
<td>4</td>
</tr>
<tr>
<td>CONSVTY 5547</td>
<td>History of Opera</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5548</td>
<td>Opera Literature</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5566 (A, B, C, D)</td>
<td>Vocal Literature (one required)</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5593</td>
<td>Introduction to Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5597</td>
<td>Master's Recital (two required)</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>34 hours</strong></td>
</tr>
</tbody>
</table>

(a) A minimum of one semester of applied music (5501) is usually required before the first solo recital. However, Voice Performance majors, with the approval of the Vocal Studies Division, may enroll in 5597 (Master's Recital) any semester to receive credit for a major UMKC opera role.

**Notes:** Not more than one-half the total hours counted toward the planned program may be in applied music and recitals. Participation for two semesters in a major choral ensemble is required. The diction proficiency test for French, German and Italian must be passed.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOICE 5500A</td>
<td>Applied Study (4 semesters)</td>
<td>8</td>
</tr>
<tr>
<td>CONSVTY 5517</td>
<td>Advanced Opera Workshop</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5547</td>
<td>History of Opera</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5548</td>
<td>Opera Literature</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5590</td>
<td>Special Topics (Adv. Opera Scene Study)</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5593</td>
<td>Introduction to Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>VOICE 5597</td>
<td>Recital (Opera Role, 2 semesters)</td>
<td>8</td>
</tr>
<tr>
<td>DANCE 403A or DANCE 404A</td>
<td>Dance for Non-Majors (a)</td>
<td>1</td>
</tr>
<tr>
<td>THEATRE 300</td>
<td>Acting 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-vocal performance electives (b)</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>34 hours</strong></td>
</tr>
</tbody>
</table>

(a) A movement class may be substituted.
(b) Recommended courses include vocal literature, music history, music theory, applied piano, and vocal pedagogy.
LANGUAGE REQUIREMENT
Must attain a grade of B- (2.7) or better in a second semester, freshmen-level, foreign language course in all three languages - French, German and Italian.

ENSEMBLE REQUIREMENT

Students must satisfactorily participate in one major choral/orchestral work during their two years of study, either as soloists or members of the chorus. Assignment for participation is at the discretion of the Director of Choral Activities.

The following two requirements also apply to all students in the M.M. in Performance: Voice Emphasis, Opera Track.

Language requirement. Must attain a grade of B- (2.7) or better in a second semester, freshmen-level, foreign language course in all three languages - French, German and Italian.

Ensemble requirement. Students must satisfactorily participate in one major choral/orchestral work during their two years of study, either as soloists or members of the chorus. Assignment for participation is at the discretion of the Director of Choral Activities.
**Master of Music in Performance: Woodwind Emphasis**

**Note:** The five instruments covered in this degree shall be flute, oboe, clarinet, saxophone and bassoon.

- CONSVTY 5501 Applied Music
  - (Instrument #1)(a) 4
- CONSVTY 5500A Applied (Instrument #2)(b) 2
- CONSVTY 5500A Applied (Instrument #3)(b) 2
- CONSVTY 5500-5600 Music Theory 3
- CONSVTY 5500-5600 Music History 3
- CONSVTY 5591,5592 Advanced Pedagogy 4
- CONSVTY 5593 Introduction to Research and Bibliography in Music 3
- CONSVTY 5597 Master's Recital 8
- Ensemble(c)/Electives 5

**Total hours (minimum)** 34

(a) A minimum of one semester of applied music is required before the recital. Not more than one-half of the total hours counted toward the planned program may be in applied music and recitals.
(b) A graded half recital during the second semester of study on instruments #2 and #3 is required.
(c) Two semesters of participation in a major ensemble are required on instrument #1. One semester of ensemble participation each is required on instruments #2 and #3.

**Note:** Jury approval of the 101(2) applied level on instruments #4 and #5 is required before graduation.
**Master of Music in Music Theory Required Courses**

**CONSVTY 5593 Introduction to Research and Bibliography in Music** 3

**CONSVTY 5524B Advanced Analysis II - Common Practice Period** 3

**CONSVTY 5524C Advanced Analysis III - Contemporary Period** 3

**CONSVTY 5526A Introduction to Schenkerian Theory and Analysis** 3

**CONSVTY 5526B Schenkerian Analysis** 3

**CONSVTY 5591G Pedagogy of Music Theory I** 3

**Music History (Graduate Level)** 3

**CONSVTY 5598 Research Problems** 2

**CONSVTY 5599 Thesis** 6

**Electives** 6

**Total hours (minimum)** 35

**Piano Proficiency Requirement:**
The Conservatory's undergraduate piano proficiency requirement must be met.

**Applied Music Requirement:**
Successful completion of one of the following is required:
- If the student qualifies for applied music at the 302 level, then no applied study is required.
- If the student does not qualify through audition for applied music at the 302 level, then the student must enroll for applied study for three semesters or until the 301 jury is passed.

**Foreign Language Requirement:**
For all masters students in Music Theory, a grade of B- (2.7) or better in a first-semester, sophomore-level foreign language course or C (2.0) work or better in each of two junior-level courses or in one senior-level literature or civilization course is viewed as an adequate demonstration of foreign language skills. Students must study French, German, Italian or Latin unless the substitution of another language is approved by a minimum of two-thirds of the supervisory committee. A language proficiency test, if provided by language instructors or departments, may be substituted for course requirements provided it documents language capabilities equivalent to the previously described courses. In such cases, a letter from the university language professor, describing the process and results, must be forwarded to the Conservatory Associate Dean for Academic Affairs.
Master of Arts in Music Required Courses

Area of Concentration(a)  9
CONSVTY 5500-5600 Music Theory(b)  3
CONSVTY 5500-5600 Music History(c)  3
CONSVTY 5593 Introduction to Research and Bibliography in Music  3

-or-
CONSVTY 5594A Introduction to Descriptive and Experimental Research in Music  3
CONSVTY 5598 Research Problems  2
CONSVTY 302 Applied Music(d)  2
Electives  8

Total hours (minimum)  30

(a) The area of concentration is developed by the student with guidance and approval of the supervisory committee as part of the planned program. Nine hours of work in one discipline must be completed. Examples of concentration areas include (but are not limited to): Arts Administration, Composition, Conducting, Education, Musicology, Jazz and Studio Music, Performance, Theory and Therapy (equivalency).

All students applying for the Master of Arts in Music with an area of concentration in Jazz and Studio Music must audition on their applied instrument for the jazz studies faculty. No other audition is required. Applied lesson requirements will be fulfilled within the jazz department during the student's course of study.

(b) Elective credit may be substituted for students pursuing an area of concentration in music theory.

(c) Elective credit may be substituted for students pursuing an area of concentration in music history.

(d) If the applicant qualifies for applied lessons at the 302 level, a minimum of two credit hours is required. If the applicant does not qualify for applied lessons at the 302 level, the student must enroll in applied lessons for three terms or until completion of the 302 level. Students who chose a performance area of concentration must complete a minimum of one semester of 5500A. A total of nine hours of lessons/ensembles is required for an applied area of concentration.
**Master of Arts in Music - Music Therapy**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5544</td>
<td>Advanced Clinical Experience</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5545</td>
<td>Seminar in Music Therapy</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5594A</td>
<td>Introduction to Descriptive and Experimental Research in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5599</td>
<td>Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select one course from the following four:** 3

- CONSVTY 5573 Administration of Music Education/Music Therapy
- CONSVTY 5596 Theories of Learning Music
- EDUC-R&P 5505 Statistical Methods I
- EDUC-R&P 5502 Advanced Educational Psychology

**Special Interest Areas (suggested options):** 16

- Gerontology Certificate program
- Health Services Administration
- Gerontology Administration
- Counseling Psychology and Counselor Education
- Education
- Sociology

Electives (5500 level music courses) 6

**Total hours (minimum)** 35

**Notes:** Students seeking this degree are not required to take the matriculation exams unless coursework in musicology and theory is required.

**Performer's Certificate Required Courses**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lessons and Recitals (Solo Experiences)(a)</td>
<td>16</td>
</tr>
<tr>
<td>Chamber and Ensemble Work (Collaborative Experiences) and/or Prescribed Electives</td>
<td>8</td>
</tr>
<tr>
<td>Music Literature/Pedagogy(b)</td>
<td>3-5</td>
</tr>
</tbody>
</table>

**Total hours (minimum) 27-29**

**Note:** Voice students must pass the diction proficiency test in French, German and Italian.

(a) Instrumental and keyboard students: four hours of lessons and 12 hours of recitals. Piano students are required to present three public recitals and two collaborative recitals. The collaborative recital requirement is part of the applied piano lesson - no extra credit is received.

Voice students: eight hours of lessons and eight hours of recitals.

(b) Instrumental students, three hours; keyboard students, five hours; voice students, four hours.

**Student Learning Outcomes**

The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of doctoral level music students. To that end, the Conservatory endorses the development of

- Intellectual awareness and curiosity sufficient to predict continued growth and contribution to the discipline.
- Significant accomplishment in performance, composition, scholarship, music education or conducting.
- A knowledge of the techniques of music theory sufficient to perform advanced analysis.
- A knowledge of representative literature and composers of each major period of music history.
- A knowledge of general bibliographic resources in music.
- Considerable depth of knowledge in some aspect of music, such as historical period, an aspect of theory, performance practice or compositional styles.
- Sufficient writing and speaking skills to communicate clearly and effectively to members of the scholarly community and to the wider community.
- A reading knowledge of one or more foreign languages, or other appropriate research skills.

**Doctor of Musical Arts in Music Composition Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservatory 5500-5600</td>
<td>Music Theory (three courses)</td>
<td>9</td>
</tr>
<tr>
<td>Conservatory 5500-5600</td>
<td>Music History (three courses) (a)</td>
<td>9</td>
</tr>
<tr>
<td>CONSVTY 5533</td>
<td>Advanced Composition (three classes)</td>
<td>9</td>
</tr>
<tr>
<td>CONSVTY 5533 -or-</td>
<td>Advanced Composition (one additional -or-)</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5534</td>
<td>Advanced Electronic Music Composition</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 5593</td>
<td>Introduction to Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5699</td>
<td>Dissertation Research (b)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Area of Concentration (c)</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

(a) All doctoral students are required to complete three graduate music history courses. One must be a period course (CONSVTY 5555 - CONSVTY 5559), one must be a seminar course, and the remaining course may be either. Any substitutions must be approved by the music history faculty.

(b) An extended work in a format approved by the composition faculty. Two copies of the full score must be placed in the Conservatory Library.

(c) The area of concentration is developed by the student with guidance and approval of the supervisory committee as part of the planned program. Examples include Applied Music/Ensemble Performance, Music Scholarship, Conducting (Choral and/or Instrumental), Music Technology and interdisciplinary courses.
### Doctor of Musical Arts in Conducting Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5582</td>
<td>Advanced Choral Conducting (three semesters)</td>
<td>6</td>
</tr>
<tr>
<td>CONSVTY 5583D</td>
<td>Advanced Instrumental Conducting for Choral Majors</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5587</td>
<td>Seminar in Choral Literature</td>
<td>8</td>
</tr>
</tbody>
</table>

- or -

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5583</td>
<td>Advanced Instrumental Conducting (three from CONSVTY ABCD)</td>
<td>6</td>
</tr>
<tr>
<td>CONSVTY 5586A</td>
<td>Seminar in Orchestral Literature</td>
<td>6</td>
</tr>
<tr>
<td>CONSVTY 5582</td>
<td>Advanced Choral Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

- or -

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5583</td>
<td>Advanced instrumental Conducting (three from CONSVTY ABCD)</td>
<td>6</td>
</tr>
<tr>
<td>CONSVTY 5586B</td>
<td>Seminar in Wind/Band Literature</td>
<td>8</td>
</tr>
</tbody>
</table>

And the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5500A</td>
<td>Applied Music (a)</td>
<td>2</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music History (b) (three required)</td>
<td>9</td>
</tr>
<tr>
<td>CONSVTY 5500-5600</td>
<td>Music Theory (three required)</td>
<td>9</td>
</tr>
<tr>
<td>CONSVTY 5593</td>
<td>Introduction to Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5697B</td>
<td>Doctoral Conducting Performance (c) (Two public performances with supporting documents)</td>
<td>8</td>
</tr>
<tr>
<td>CONSVTY 5697 / CONSVTY 5698 / CONSVTY 5699</td>
<td>(d) Doctoral Research</td>
<td>4</td>
</tr>
</tbody>
</table>

(a) Each doctor of musical arts conducting major must enroll in applied music the first term of registration as a full-time, degree-seeking student. If the applicant qualifies for applied music at the 5500A level, a minimum of two credit hours is required. If the applicant does not qualify for applied music at the 5500A level, then the student must enroll in applied music until completion of the 5500A level or until graduation.

1. Choral conducting majors whose major applied music is not voice will be required to take three terms of applied voice at any level.
2. Instrumental conducting majors will be further required to enroll in two additional semesters of two different instruments at the 5500B level as advised by the conducting faculty.

(b) All doctoral students are required to complete three graduate music history courses. One must be a period course (CONSVTY 5555- CONSVTY 5559), one must be a seminar course, and the remaining course may be either. Any substitutions must be approved by the music history faculty.

(c) Conducting recitals may be done with the approval of the major adviser at any time after
successful completion of the Graduate Approval of Major.
(d) A minimum of one doctoral research project, exhibiting the highest level of independence,
must be finished after comprehensive examinations are successfully completed. Two
rehearsal/lecture demonstrations must be completed. Participation in at least one major
ensemble, as advised by the conducting faculty, during each term of enrollment as a full-time
student is required.

Language Requirement: A proficiency in one foreign language is required. See this section of
the catalog for options.

Doctor of Musical Arts in Performance Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 5500-5600 Music History (three required)</td>
<td>9</td>
</tr>
<tr>
<td>CONSVTY 5500-5600 Music Theory (three required)</td>
<td>9</td>
</tr>
<tr>
<td>CONSVTY 5591 Advanced Pedagogy</td>
<td>2(3)</td>
</tr>
<tr>
<td>CONSVTY 5593 Introduction to Research and Bibliography in Music</td>
<td>3</td>
</tr>
<tr>
<td>CONSVTY 5601 Applied Study(b)</td>
<td>4</td>
</tr>
<tr>
<td>CONSVTY 5697 Doctoral Recital (three required)</td>
<td>12</td>
</tr>
<tr>
<td>CONSVTY 5697A Doctoral Lecture Recital</td>
<td>4</td>
</tr>
<tr>
<td>CONSVTY 5697/5698/5699(d) Doctoral Research</td>
<td>4</td>
</tr>
</tbody>
</table>

(a) All doctoral students are required to complete three graduate music history courses. One must
be a period course (Conservatory 5555-5559), one must be a seminar course, and the remaining
course may be either. Any substitutions must be approved by the music history faculty.
(b) A minimum of one semester of CONSVTY 5601, Applied Music, is required before the first
solo recital. Voice performance majors, with the approval of the Vocal Studies Division, may
enroll in CONSVTY 5697 (Doctoral Recital) any semester to receive credit for a major UMKC
opera role (one time only).
(c) Performance majors must enroll in CONSVTY 5601, Applied Music; CONSVTY 5697,
Doctoral Recital; or CONSVTY 5697A, Doctoral Lecture Recital, each semester of registration
until the recital requirement has been fulfilled.
(d) A minimum of one doctoral research project, exhibiting the highest level of independence,
must be finished after comprehensive examinations are successfully completed.

Language Requirement: A proficiency in one foreign language is required. See this section of
the catalog for options.

Notes:
Voice majors:
Must enroll in CONSVTY 5547, History of Opera (3 hours), and one from CONSVTY 5566A,
CONSVTY 5566B, CONSVTY 5566C, CONSVTY 5566D, Vocal Literature, or CONSVTY
5548 Opera Literature (2 hours). Voice majors must pass the diction proficiency test in French,
German and Italian.
**Instrumentalists:**
All students whose major is an orchestral instrument must be enrolled in Conservatory Wind Symphony, Wind Ensemble or Conservatory Orchestra for a minimum of two semesters. A maximum of three semesters of an ensemble can be counted on any D.M.A. planned program of study.

Must include three major works of chamber music in the recital component of the degree as determined in consultation with students' applied professor. These works may be performed on one program, or spread among the three recitals.

**Keyboard:**
Piano majors must enroll for a total of two credits in chamber music. One of the three recitals (CONSVTY 5697) must include at least one major chamber work. In addition to the three recitals, three collaborative recitals must be completed. The collaborative recital requirement is part of the applied piano lesson-no extra credit is received.

**Artist's Certificate Required Courses**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lessons and Recitals (Solo Experiences)(a)</td>
<td>16</td>
</tr>
<tr>
<td>Electives(b)</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total hours (minimum)</strong></td>
<td><strong>29</strong></td>
</tr>
</tbody>
</table>

(a) Instrumental Students - Lessons = 4 hours, recitals = 12 hours; Piano Students - Lessons = 4 hours, recitals = 12 hours. One recital must include a complete concerto accompanied by second piano, and one recital must include at least one major chamber work. In addition to the three recitals, two collaborative recitals are required. The collaborative recital requirement is part of the applied piano lesson - no extra credit is received; Voice Students - Lessons = four hours, recitals, opera roles, and/or oratorio roles =12 hours.

(b) Instrumental Students - Students must participate or enroll in four large ensembles and two chamber ensembles; Keyboard Students - Chamber music, literature and pedagogy courses are recommended; Voice Students - Opera workshop, vocal literature, history of opera, vocal pedagogy, related arts courses in theater and art, as well as independent study experiences in language and performance are recommended.

**Note:** Voice students must pass the diction proficiency test in French, German and Italian.

**Conservatory General Education Requirements**

1. All Conservatory students must meet the requirements as covered in the
2. General Undergraduate Academic Regulations and Information section of this catalog.
3. Students enrolling in Music Theory I-IV and Ear Training and Solfège I-IV must receive a C- grade or better to progress to the next appropriate class level.
4. Students enrolling in Keyboard Skills I-IV must receive a B- grade or better to progress to the next appropriate class level.
Conservatory Courses
Undergraduate Courses
- Conservatory (CONSVTY)
- Bassoon (BASSOON)
- Cello (CELLO)
- Clarinet (CLARINET)
- Dance (DANCE)
- Euphonium (EUPHNM)
- Flute (FLUTE)
- Guitar (GUITAR)
- Harp (HARP)
- Harpsichord (HRPCHD)
- Horn (HORN)
- Oboe (OBOE)
- Organ (ORGAN)
- Percussion (PERCSN)
- Piano (PIANO)
- Saxophone (SAXOPH)
- String Bass (STR-BASS)
- Trombone (TROMB)
- Trumpet (TRUMPET)
- Tuba (TUBA)
- Viola (VIOLA)
- Violin (VIOLIN)
- Voice (VOICE)

Graduate Courses
- Conservatory (CONSVTY)
- Bassoon (BASSOON)
- Cello (CELLO)
- Clarinet (CLARINET)
- Euphonium (EUPHNM)
- Flute (FLUTE)
- Guitar (GUITAR)
- Harp (HARP)
- Harpsichord (HRPCHD)
- Horn (HORN)
- Oboe (OBOE)
- Organ (ORGAN)
- Percussion (PERCSN)
- Piano (PIANO)
- Saxophone (SAXOPH)
- String Bass (STR-BASS)
- Trombone (TROMB)
- Trumpet (TRUMPET)
- Tuba (TUBA)
- Viola (VIOLA)
- Violin (VIOLIN)
- Voice (VOICE)
Undergrad Programs

Minimum Core Requirements for All B.M. Degrees
Required Courses
HISTORY 101/HISTORY 102 or POL-SCI 210
ENGLISH 110
ENGLISH 225
CONSVTY 154A
CONSVTY 121, CONSVTY 122, CONSVTY 221, CONSVTY 222A
CONSVTY 129A, CONSVTY 129B, CONSVTY 229A, CONSVTY 229B
CONSVTY 150
CONSVTY 310 (Successful completion with a grade of B- or better. Piano Performance Majors are exempt from Keyboard Skills)
CONSVTY 323*
CONSVTY 351, CONSVTY 352
CONSVTY 380/CONSVTY 381

* Not required for Jazz and Studio Music Emphasis Area.

Minimum Foreign Language Requirements for B.M. Degrees
The following foreign language requirements for the various bachelor of music degrees may be met by high-school equivalency courses, or by taking college-level foreign language courses. High-school foreign language coursework must be evaluated by the Conservatory to determine applicability toward a degree.

- Composition: Any foreign language 110 & 120, 10 hours
- Guitar: Any foreign language 110 & 120, 10 hours
- Organ: French or German 110 & 120, 10 hours
- Piano: French or German 110 & 120, 10 hours
- Piano Pedagogy: French or German 110 & 120, 10 hours
- String Instrument: Any foreign language 110 & 120, 10 hours
- Theory: Any foreign language 110 & 120, 10 hours
- Voice: French, German or Italian 110, 120, 211 & 221, sixteen (16) hours*
- Wind and Percussion: Any foreign language 110 & 120, 10 hours

* Two years of foreign language (French, German or Italian) are required. If two years of one of the required languages have been completed at the high-school level, then the language selected will be one of the other

Bachelor of Music in Music Composition
Major status for the B.M. Music Composition degree is determined for new students (freshmen and transfer students) by the faculty through the standard admissions process. Students currently enrolled at UMKC who were accepted as majors in other programs, or students accepted into the composition class sequence as prospective composition majors, must petition the composition faculty for major status. The petition will include:

1. A portfolio of 2-3 representative scores and/or tape recordings of original work.
2. A complete list of original compositions by the petitioner.
3. Transcripts and other academic credentials.
4. A personal interview (at the discretion of the composition faculty).

Students may petition more than once, but the semester of the student's second enrollment will be the last permissible attempt. Students denied admission after this semester may not petition again. Undergraduate students without composition major status are welcome to take composition classes as often as they wish, though in rare cases of full enrollment, preference may need to go to majors.

Normally, petitions will be considered during the spring semester as a part of the admissions review process for the coming year.

Maintenance of major status is required for eligibility for composition scholarships and fellowships. In order to maintain major status, two conditions must be met:

1) A minimum of a B- average in Music Theory classes (CONSVTY 121, CONSVTY 129A, CONSVTY 122, CONSVTY 129B, CONSVTY 221, CONSVTY 229A, CONSVTY 222A, CONSVTY 229B) must be maintained.

2) No grade below a B- may be received in any Composition class (CONSVTY 133, CONSVTY 134, CONSVTY 233, CONSVTY 234, CONSVTY 333, CONSVTY 433).

A student who fails to meet either or both of these conditions is considered to be on probation, and must retake classes or raise the average within one year to avoid loss of major status. If major status is revoked, it may only be reinstated by petition (as described above).

Required Courses:
See minimum core requirements

In addition to core classes, the following courses are required for the B.M. in Music Composition.

Any foreign language 110 & 120, 10 hours

COMM-ST 110

ENGLISH 300-level

CONSVTY 101-301 (a)

CONSVTY Ensemble (b)

CONSVTY 110 Keyboard Skills I

CONSVTY 123 Keyboard Skills II

CONSVTY 223 Keyboard Skills III

UMKC 2012-13 Music and Dance, Conservatory of
CONSVTY 310 Keyboard Skills IV (c)
CONSVTY 133 - CONSVTY 134
CONSVTY 233 - CONSVTY 234
CONSVTY 235 or CONSVTY 236
CONSVTY 329
CONSVTY 331A; CONSVTY 431
CONSVTY 333 (See Major Status)
CONSVTY 427
CONSVTY 428
CONSVTY 433

Electives 6

Notes:

(a) Students majoring in composition must complete level 301 secondary in any applied area.

(b) Ensemble: Participation as a performer by enrollment in a major ensemble (other ensembles may be substituted for a major ensemble only by petition) for a minimum of four semesters is required. Four additional semesters (not necessarily major ensembles) must be fulfilled either through additional enrollment as a performer or through enrollment in CONSVTY 301G Ensemble for Composers, though a minimum of two semesters of CONSVTY 301G must be taken. It is expected that students enrolling for CONSVTY 301G more than once will observe a different ensemble or ensembles each time they enroll.

Participating ensembles include: Conservatory Orchestra, Conservatory Wind Ensemble, Conservatory Wind Symphony, Men's Chorus, Women's Chorus, Heritage Chorale, Jazz Band, Jazz Orchestra, Jazz Workshops, Canticum Novum, Musica Nova, Percussion Ensemble and Zephyr Quintet. (Others may be added as the course develops.) Course enrollment is done through the appropriate student services coordinator in the Conservatory Academic Affairs Office, but assignment of students to particular ensembles will be done by the composition faculty in consultation with ensemble directors.
Composition faculty will be responsible for communicating with conductors regarding upcoming repertoire.
(c) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

(d) The Area of Concentration is developed by the student before the end of the freshman year (or before the end of the first semester of CONSVTY study for transfer students) with guidance and approval of the composition faculty as a part of the planned program.

Student Learning Outcomes
The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of undergraduate music students. To that end the Conservatory endorses the acquisition of skills in musicianship and general studies.

Musicianship:
Every musician functions to some extent as:
- Performer
- Listener
- Historian
- Composer
- Theorist
- Teacher

Therefore students are required to be exposed to and develop basic competencies in all of these areas. The content of this area includes:
- Sight-singing
- Ear-training
- Harmony
- Keyboard skills
- Counterpoint
- Orchestration/arranging
- Conducting
- Music literature
- Performance practice

Undergraduate musicianship studies focus on:
2. Continued practice in creating, interpreting, presenting, analyzing and evaluating music.
3. Increasing understanding of various musical cultures and historical periods.
4. Acquiring capacities to integrate musical knowledge and skills.
5. Accumulating capabilities for independent work in the music professions.

General Studies:
Studies in other areas of human achievement are important in the education of musicians. As a result students are required to develop an awareness of basic ideas and concepts in:
Students are encouraged to view the combination of musicianship and general studies as a means of developing a broad foundation for future artistic and intellectual development.

**Bachelor of Music in Performance**

Students seeking degrees in this program may select an emphasis area in:

- Guitar
- Organ
- Piano
- Piano pedagogy
- Jazz and studio music
- String instruments (cello, string bass, viola, and violin)
- Voice
- Wind and percussion instruments (bassoon, clarinet, euphonium, flute, horn, oboe, percussion, saxophone, trombone, trumpet, and tuba)

**Guitar**
1. Students must show demonstrable knowledge of all major and minor scales and arpeggios in two and three octaves.
2. Students should be able to perform selections in contrasting styles at the level of Sor, Giuliani, Carulli, etc.
3. Students must be able to sight read single-line melodies in all positions.

**Jazz and Studio Music**
1. Students must show demonstrable knowledge of all major and minor scales and arpeggios, in one or two octaves, etudes and solos from standard literature of the instrument, including one jazz selection from memory.
2. Membership in high school orchestra, band or jazz band is desirable.
3. Sight reading will be required.
4. An interview with the appropriate jazz faculty is required.

**Organ**
1. Students must show demonstrable knowledge of all major and minor scales and arpeggios at moderate tempo.
2. Students should be able to perform Bach Two-Part Inventions or the Bach Little Preludes and Fugues for Organ and a contrasting work of comparable difficulty.

**Piano**
1. Students must show demonstrable knowledge in all major and minor scales and tonic arpeggios, parallel motion, and four octaves in moderately rapid tempo.
2. Students should be able to perform Bach Two- and Three-Part Inventions; compositions corresponding in difficulty to Beethoven Sonata, Opus 14, No. 1; Mozart Fantasia in D Minor; Chopin Nocturne, Opus 44, No. 1; Schubert Impromptu, Opus 90, No. 4; and Debussy Arabesques.
Piano Pedagogy
1. Students must show demonstrable knowledge of all major and minor scales and tonic arpeggios, parallel motion and four octaves in moderately rapid tempo.
2. Students should be able to perform Bach Two- and Three-Part Inventions; compositions corresponding in difficulty to Beethoven Sonata, Opus 14, No. 1; Mozart Fantasia in D Minor; Chopin Nocturne, Opus 44, No. 1; Schubert Impromptu, Opus 90, No. 4; Debussy Arabesques.

Strings
1. Students must show demonstrable knowledge of all major and minor scales and arpeggios, in one or two octaves, etudes and solos from standard literature of the instrument. One piece must be performed from memory.
2. Membership in high school orchestra or band is desirable.

Voice
1. Students must be able to sing standard songs in English on pitch and with satisfactory phrasing and musical intelligence.
2. Students must demonstrate ability to read a simple song at sight and should have completed the equivalent of PIANO 123.

Winds and Percussion
1. Students must show demonstrable knowledge of all major and minor scales and arpeggios in one or two octaves, etudes and solos from standard literature of the instrument.
2. Membership in high school orchestra or band is desirable.

Guitar Emphasis Area
Required Courses:
See core requirements
GUITAR 101- GUITAR 402
COMM-ST 110
ENGLISH 300-level
Ensemble (eight semesters)
CONSVTY 305J (six semesters)
CONSVTY 331
CONSVTY 427
CONSVTY 437
CONSVTY 491D- CONSVTY 492D
CONSVTY 494
CONSVTY 223- CONSVTY 310
Music Electives (7)
Electives (12)
Jazz and Studio Music Emphasis Area

Note: For saxophone, trumpet, trombone, guitar, string bass, percussion and piano. Other instruments may be considered by petitioning the jazz faculty.

Required Courses
See minimum core requirements

CONSVTY 101- CONSVTY 301
CONSVTY 205
CONSVTY 301J- CONSVTY 402J
CONSVTY 104- CONSVTY 404
COMM-ST 110
CONSVTY 123- CONSVTY 310
CONSVTY 302 or CONSVTY 306A or CONSVTY 306C
ENGLISH 300-level
CONSVTY 235 OR CONSVTY 236
CONSVTY 303B or CONSVTY 303G
CONSVTY 303E
CONSVTY 305
CONSVTY 311
CONSVTY 318
CONSVTY 329
CONSVTY 349
CONSVTY 353A- CONSVTY 353B
CONSVTY 423
CONSVTY 426B
CONSVTY 426D
CONSVTY 440
CONSVTY 471
CONSVTY 437
Electives

(a) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.
(b) CONSVTY 303B or CONSVTY 303G count as major ensemble for jazz majors only. Students must be admitted to major status before enrollment in 301J is permitted. Major status is dependent on completing CONSVTY 202 and successfully performing before the jazz faculty.
Organ Emphasis Area
Required Courses
See core requirements and foreign language requirement (must be French or German)

ORGAN 101- ORGAN 402
Ensemble (eight semesters)(a)
ENGLISH 300-level
CONSVTY 382
CONSVTY 427
CONSVTY 437
CONSVTY 460- CONSVTY 469
CONSVTY 491C
HRPCHD 101
Applied Piano (b)
Music Electives (4)
Electives (13)

(a) Organ performance majors have the option of using a maximum of four semesters of
CONSVTY 305G, Collaborative Keyboard, in lieu of their major ensemble.
(b) Two semesters of applied piano are required. PIANO 202 (two hours) and the piano
proficiency examination must be passed prior to graduation; therefore, additional piano may be
required.

Piano Emphasis Area
Required Courses
See core requirements
Foreign Language Requirement: French or German 110 & 120, 10 hours
May be met by high-school equivalency courses.

PIANO 101- PIANO 402
CONSVTY 114, CONSVTY 115, CONSVTY 214, CONSVTY 215
Ensemble (eight semesters)*
ENGLISH 300-level
CONSVTY 325- CONSVTY 326
CONSVTY 325A- CONSVTY 326A
CONSVTY 376, CONSVTY 377, CONSVTY 476, CONSVTY 477
CONSVTY 427 18th
CONSVTY 437
CONSVTY 361- CONSVTY 362, CONSVTY 461- CONSVTY 462
Electives (13)

* Piano performance majors have the option of using a maximum of four semesters
of CONSVTY 305G, Chamber Music, in lieu of their major ensemble.
**Piano Pedagogy Emphasis Area**

**Required Courses**

See core requirements

Foreign Language Requirement: French or German 110 & 120, 10 hours

May be met by high-school equivalency courses.

CONSVTY 101 - CONSVTY 402

CONSVTY 114, CONSVTY 115, CONSVTY 214, CONSVTY 215

Ensemble (Eight Semesters)(a)

PSYCH 210

ENGLISH 300-level

CONSVTY 325 - CONSVTY 326

CONSVTY 325A - CONSVTY 326A

CONSVTY 376, CONSVTY 377

CONSVTY 427 18th

CONSVTY 437

CONSVTY 361, CONSVTY 362, CONSVTY 461, CONSVTY 462

CONSVTY 495 - CONSVTY 496

CONSVTY 495A - CONSVTY 496A

Electives

(a) Piano pedagogy performance majors have the option of using a maximum of four semesters of CONSVTY 305G, Collaborative Keyboard, in lieu of their major ensemble.

(b) Must be taken concurrently with appropriate pedagogy course.

**String Instrument Emphasis Area**

**Required Courses**

See core requirements and foreign language requirement.

CONSVTY 101 - CONSVTY 402

COMM-ST 110

ENGLISH 300-level

CONSVTY 302 (eight semesters)

CONSVTY 305A (eight semesters)

CONSVTY 331

CONSVTY 427

CONSVTY 470D

CONSVTY 437

CONSVTY 223 - CONSVTY 310

Music Electives (9)

Electives (11)
Voice Emphasis Area
Required Courses
See minimum core requirements
Foreign Language Requirement: French, German or Italian 110, 120, 211, 221
Two years of one foreign language (French, German or Italian) is required. If two years of one of the required languages have been completed at the high-school level, then the language selected will be one of the other two languages.

CONSVTY 101 - CONSVTY 402
CONSVTY 185A, CONSVTY 185B, CONSVTY 185C, CONSVTY 185D
ENGLISH 300-level
Major Choral Ensemble (Eight Semesters)(b)
THEATER 300
CONSVTY 417B, CONSVTY 417C
CONSVTY 437
CONSVTY 457- CONSVTY 458
CONSVTY 491B- CONSVTY 492B
CONSVTY 123, CONSVTY 223, CONSVTY 310
Electives

(a) Ensemble: In addition to the required enrollment in a major choral ensemble each semester, students must also participate satisfactorily in two opera productions as assigned by the choral faculty in consultation with voice and opera faculty.
(b) All Voice majors must take a fall section of CONSVTY 417B. Six other credits may be chosen from CONSVTY 417C, CONSVTY 417D, CONSVTY 417E and CONSVTY 417F.

Wind and Percussion Emphasis Area
See core requirements and foreign language requirement.
CONSVTY 101- CONSVTY 402
COMM-ST 110
ENGLISH 300-level
CONSVTY 302/ CONSVTY 306A/ CONSVTY 306C (8 semesters)
CONSVTY 305 8 semesters)
CONSVTY 331
CONSVTY 383
CONSVTY 427
CONSVTY 437
CONSVTY 223, CONSVTY 310

Music Electives (14)

Electives (11)
Bachelor of Music in Music Theory
Degree Program Prerequisites

Formal approval of the music theory program must be acted upon after the student completes CONSVTY 222A or its equivalent. Students in this degree plan must maintain a minimum GPA of B- in the undergraduate music theory sequence (CONSVTY 121 - CONSVTY 129A, CONSVTY 122- CONSVTY 129B, CONSVTY 221- CONSVTY 229A, CONSVTY 222A-CONSVTY 229B). Students not maintaining this minimum average may not graduate until an appropriate class or classes are retaken and the minimum average achieved.

Students must demonstrate functional piano facility, aural skills and satisfactory part-writing and analysis proficiency.

Music Theory Program Required Courses
(See core requirements and foreign language requirement (a))
CONSVTY 101- CONSVTY 402
Ensemble (eight semesters)
ENGLISH 300-level
COMM-ST 110
CONSVTY 133- CONSVTY 134
CONSVTY 235 or CONSVTY 236
CONSVTY 329
CONSVTY 331A
CONSVTY 373 (two semesters)
CONSVTY 382/ CONSVTY 383
CONSVTY 424
CONSVTY 427
CONSVTY 428
CONSVTY 491K
CONSVTY 497
CONSVTY 498
Music Electives (2)
Non-music Electives (3)
(a) Petitions to substitute another language will be considered in special cases.
Bachelor of Music
The bachelor of music program is a professional baccalaureate degree program offered in performance, music composition or music theory.

Bachelor of Fine Arts
The Conservatory of Music offers a bachelor of fine arts in dance.

Student Learning Outcomes
The Conservatory of Music aims to meet or exceed the educational standards set by the National Association of Schools of Dance (NASD) for the training of undergraduate dance students. To that end students must
1. Demonstrate a basic ability in, and theoretical foundation for, ballet.
2. Demonstrate a basic ability in, and theoretical foundation for, modern dance.
3. Demonstrate basic knowledge of choreography.
4. Meet general studies requirements for the purpose of broadening their outlook on the world.

Students are encouraged to view the combination of dance and general studies as a means of developing a broad foundation for future artistic and intellectual development.

Bachelor of Fine Arts in Dance
The Dance Division curriculum reflects the career goals and employment opportunities of the undergraduate dance students. Students will be admitted to the dance program on the basis of a successful audition before the dance faculty, and a positive evaluation of their academic credentials and physical fitness. Student progress in the dance program will be evaluated by the dance faculty each semester during training.

Students are admitted provisionally until they are approved for their major, based on the evaluation and recommendation of the dance faculty.

Eligibility and Assessment Criteria
1. Students auditioning for acceptance at the freshman level must demonstrate a basic ability in, and theoretical foundation for, dance training.
2. At the completion of the second semester of the freshman year, students may advance to the next technical level in ballet and/or modern dance on the basis of a juried examination and assessment by the dance faculty.
3. Students not advancing to the next technical level in ballet and/or modern dance will be required to repeat their present level. This is only inclusive of the 100 technique level and the 200 technique level in ballet and modern. Students are allowed to repeat a technical level for one year or two semesters. If unsuccessful advancement occurs, students will be advised to change their major.
4. When a student has met the proficiency standards at the completion of the sophomore year through a juried examination and at the recommendation of the dance faculty, the student may petition for declaration of a major and minor area of emphasis in ballet or modern dance.
5. Following acceptance by the dance faculty, a student will be expected to achieve a fourth-year level of technical proficiency in the major area of emphasis and achieve a third-year level of technical proficiency in the minor area of emphasis.

6. Dance majors must maintain a B average in all dance technique classes and an overall combined 3.0 GPA in all dance courses.

7. All BFA candidates must perform in at least one main stage dance concert during the four years of study with the Dance Division. There are two main stage concerts per year - the Fall Dance Concert and the Spring Dance Concert. This does not include senior recitals. A program of one main stage concert shall be submitted by the candidate to the Conservatory dance advisor for record.

8. Upon completion of all degree requirements, and a satisfactory evaluation by the dance faculty of the senior recital, a student may submit application for graduation.

9. **Program Prerequisites**
   1. Students applying for the dance program must have previous training in ballet and/or modern dance.
   2. Applicants will be admitted, upon approval of the dance faculty, following mandatory auditions by the students.

**Required DANCE Courses**
- DANCE 140A- DANCE 140B
- DANCE 141B- DANCE 442B
- DANCE 141M- DANCE 442M
- DANCE 107, DANCE 108
- DANCE 213C- DANCE 213D
- DANCE 217A, DANCE 217B
- DANCE 218A, DANCE 218B, DANCE 319A, DANCE 319B
- DANCE 250
- DANCE 260, DANCE 261
- DANCE 301
- DANCE 302
- DANCE 303
- DANCE 305, DANCE 306
- DANCE 309B
- DANCE 310A, DANCE 310B
- DANCE 313A, DANCE 313B
- DANCE 405A, DANCE 405B
- DANCE 413A, DANCE 413B
- DANCE 414A, DANCE 414B
- DANCE 415A, DANCE 415B
- DANCE 416A, DANCE 416B,
- DANCE 493, DANCE 494

Total Hours 101 (103)

**Required General Studies Courses**
- HISTORY 101
- ART 110
COMM-ST 110
ENGLISH 110
ENGLISH 225
CONSVTY 120 or CONSVTY 120N
CONSVTY 353A or CONSVTY 125
THEATRE 101 or THEATRE 300
CONSVTY 375B
DANCE 106 -or- COMP-SCI 100
Applied Music
Total Hours 30

* A senior recital is required. The recital must consist of two different dance forms studied in the four years of coursework, including one solo and one group work choreographed by the student. Further senior recital requirements are contained in the CONSVTY dance student handbook. Throughout their programs of study, all dancers are expected to maintain general physical fitness and dance aesthetic as prescribed by the dance faculty. Health and dance aesthetic requirements, and many other details, are contained in the Conservatory Dance Student Handbook that is furnished to all dance students.

Bachelor of Arts in Music
The bachelor of arts in music degree program recognizes students' diverse interests and the shifting vocational market. This program of study offers students great flexibility in designing programs that emphasize their musical strengths, as well as their abilities in other fields. The Conservatory's bachelor of arts in music degree requires a minimum of 129 credit hours of study. Fifty-four credit hours will be in music, including music theory and history, applied music, ensemble, listening laboratory and electives. There are approximately 48 credit hours required in the field of biological, physical and social sciences, and the humanities. A secondary specialty area, known as an area of concentration, requires approximately 15-18 credit hours from a block of 27 credit hours of electives.

Students accepted into the Conservatory's bachelor of arts music program have great freedom in designing individual programs of study around their musical training. They may take courses in such areas as business, communications, English, theater, computer science, foreign languages and music therapy, which may lead to a double-major degree.

Student Learning Outcomes
The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of undergraduate music students. To that end the Conservatory endorses the acquisition of skills in musicianship and general studies.

Musicianship:
Every musician functions to some extent as:
- Performer
- Listener
- Historian
• Composer
• Theorist
• Teacher

Therefore students are required to be exposed to and develop basic competencies in all of these areas. The content of this area includes:
• Sight-singing
• Ear-training
• Harmony
• Keyboard skills
• Counterpoint
• Orchestration/arranging
• Conducting
• Music literature
• Performance practice

Undergraduate musicianship studies focus on:
2. Continued practice in creating, interpreting, presenting, analyzing, and evaluating music.
3. Increasing understanding of various musical cultures and historical periods.
4. Acquiring capacities to integrate musical knowledge and skills.
5. Accumulating capabilities for independent work in the music professions.

General Studies:
Studies in other areas of human achievement are important in the education of musicians. As a result students are required to develop an awareness of basic ideas and concepts in:
• Natural and physical sciences
• Social sciences and communication
• Other areas of the arts and humanities

Students are encouraged to view the combination of musicianship and general studies as a means of developing a broad foundation for future artistic and intellectual development. While broadly interacting with general studies courses, students in this degree program are encouraged to develop an "area of concentration" which represents a deeper knowledge of an area outside of music.

Required Music Courses
CONSVTY 121, CONSVTY 122, CONSVTY 221, CONSVTY 222A
CONSVTY 129A, CONSVTY 129B, CONSVTY 229A, CONSVTY 229B
CONSVTY 154A
CONSVTY 323
CONSVTY 101- CONSVTY 301
CONSVTY 110, CONSVTY 123, CONSVTY 223, CONSVTY 310*
CONSVTY 325 (keyboard majors only)
CONSVTY 490 (3)
Major ensemble (eight semesters)**
Music electives (3)
*Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.
**All students whose applied area is voice are required to participate satisfactorily in two opera productions as assigned by the choral faculty in consultation with voice and opera faculty.

**Required General Studies Courses**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Humanities</td>
<td>6</td>
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<tr>
<td>Social Science</td>
<td>6</td>
</tr>
<tr>
<td>HISTORY 101 or HISTORY 102 or POL-SCI 210</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science (with lab)</td>
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<tr>
<td>ENGLISH 110, ENGLISH 225, and one 300-level Writing Intensive Course</td>
<td>9</td>
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<tr>
<td>COMM-ST 110 Fundamentals of Effective Speaking and Listening</td>
<td>3</td>
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<tr>
<td>Math or Statistics (MATH 206, MATH 210, STAT 235, PSYCH 316, OR SOCIOL 363)</td>
<td>3</td>
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<tr>
<td>CONSVTY 150 Intro to Music Literature</td>
<td>3</td>
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<td>CONSVTY 351, CONSVTY 352 History of Music in Western Civilization I, II</td>
<td>6</td>
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<tr>
<td>CONSVTY 424 Acoustics</td>
<td>3</td>
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<td>CONSVTY 437 Computer Literacy</td>
<td>3</td>
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<td>Area of Concentration (Non-music)</td>
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<td>Electives (Non-music)</td>
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<td><strong>Total Hours</strong></td>
<td><strong>75</strong></td>
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Music Therapy Emphasis Area Prerequisites

Additional Admission Criteria
1. Students should be able to qualify for CONSVTY 101, Applied Study for Freshman, for two hours of credit in their major performance area.
2. Students should have enough proficiency at the piano to play popular songs and church hymns, and to harmonize simple folk songs. The ability to play by ear is useful.
3. Emotional stability and good physical stamina are also essential for a music therapist.
4. Applicants are required to complete an interview with a music therapy faculty member prior to admission.

Retention
In order to continue in the B.A. in music therapy degree program, a minimum 3.0 cumulative average in CONSVTY 128, CONSVTY 180 and CONSVTY 130 is required by the end of the student's first year as a music therapy major. A student who fails to do so is considered to be on probation, and must retake the class or classes that caused the GPA to be under 3.0. The grade from the second taking of a class will supersede the grade for the first taking of a class when figuring the 3.0 minimum requirement.

Music Therapy Emphasis Area Required Music Courses
CONSVTY 101- CONSVTY 301
CONSVTY 101C
CONSVTY 121, CONSVTY 122, CONSVTY 221, CONSVTY 222A
CONSVTY 128
CONSVTY 129A, CONSVTY 129B, CONSVTY 229A, CONSVTY 229B
CONSVTY 150
CONSVTY 154A
CONSVTY 223- CONSVTY 310
CONSVTY 302/ CONSVTY 306A/ CONSVTY 306C/ CONSVTY 307C/ CONSVTY 308A/
CONSVTY 301C (8 semesters)(c)
CONSVTY 315
CONSVTY 316
CONSVTY 351- CONSVTY 352
CONSVTY 360
CONSVTY 373G -or- GUITAR 100B
CONSVTY 373N
CONSVTY 380-or- CONSVTY 381
CONSVTY 425A-or- CONSVTY 425B

(a) Proficiency level 301 (2 hrs) in the major applied field must be passed.
(b) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.
(c) If the applied area is in voice, two opera productions as assigned by the choral faculty in consultation with voice and opera faculty are required.
Music Therapy Emphasis Area Required Courses
LS-PHYS 117
LS-ANATO 118L
CONSVTY 130
CONSVTY 180
CONSVTY 210A
CONSVTY 210B
CONSVTY 210C
CONSVTY 210D
CONSVTY 210E
CONSVTY 210F
CONSVTY 260
CONSVTY 406
CONSVTY 408
CONSVTY 409
CONSVTY 410
CONSVTY 435
PSYCH 210
PSYCH 322
PSYCH 433

(a) Must be taken concurrently with CONSVTY 260.
(b) Must be taken concurrently with CONSVTY 408.
(c) Must be taken concurrently with CONSVTY 409.

Music Therapy Emphasis Area General Studies Courses
ENGLISH 110
ENGLISH 225
COMM-ST 110
CONSVTY 437
HISTORY 101/ HISTORY 102
PSYCH 316
Electives (General)

Licensure
Graduates may apply for membership by contacting the American Music Therapy Association (AMTA). For Board Certification, graduates may contact the Certification Board for Music Therapy (CBMT). All coursework must be completed before beginning CONSVTY 410 Conservatory Experience. Therapy students are required to enroll in a professional liability insurance program.
Bachelor of Music Education
Completion of the bachelor of music education (BME) degree at UMKC fulfills the course requirements to teach music in grades K-12 (elementary general music and secondary vocal or instrumental music) in both Missouri and Kansas.

Following the adopted guidelines of the recognized accrediting agencies in music (NASM) and teacher education (NCATE), the BME program of study prepares future music educators. The faculty of the Music Education/Music Therapy Division believes that the best preparation for teaching is the completion of all courses in the undergraduate music education curriculum. Therefore, all students seeking UMKC endorsement for teacher certification through the Conservatory of Music and Dance must satisfy the course requirements of the bachelor of music education degree. Before being provisionally admitted into the music teacher education course sequence, students must:

1. Pass the C-BASE examination and
2. Submit an acceptable application to the School of Education by the end of the sophomore year.

The Conservatory of Music and Dance offers a bachelor of music education degree with an emphasis in choral music, instrumental music or music therapy.

Application and Audition Requirements
Music Education majors are expected to display those personal characteristics and professional qualities possessed by effective teachers. Applicants audition in their applied performance area and are interviewed by the music education faculty to determine their admission to this program. Applications for admission to the UMKC Conservatory of Music and Dance are reviewed by both the Applied and the Music Education faculties. Applicants must demonstrate facility in their applied performance area and a strong academic record in addition to well-defined attitudes and goals toward music in elementary and secondary education (see fitness-to-teach).

1. Students must have an ACT score of 21 or higher, or be at the 50 percentile or higher in the high school class rank, or have a high school grade-point average of 2.5 or better
2. Applicants should complete an interview with a music education faculty member prior to admission.
3. Students who do not achieve these standards (listed above) may be considered for admission, but must meet the standards listed below to progress through the degree.

Expectations for Degree Progression and Retention
Complete 201 and be admitted into 202 in the applied area of study.
Complete CONSVTY 223 or complete CONSVTY 310, Keyboard Skills IV, with a grade of B- or better.
Compile a GPA of at least 2.8 overall and/or 3.0 GPA in music.
Must maintain a combined GPA of at least 2.75 in music theory and ear training classes.
Before the student teaching semester the student:
Must complete a 30-minute public recital and 401.
Must complete CONSVTY 310, Keyboard Skills IV, with a grade of B- or better.
Must maintain an overall GPA of at least 2.8 with a 3.0 in music and a 3.0 in music methods (128, 385 and 386/387).
The Music Education faculty expects music education students to exhibit those characteristics appropriate for effective teaching throughout the program and to make satisfactory progress toward the degree.

Other specific retention criteria are as follows:
1. Be in good standing, free from academic, disciplinary, or music probation;
2. Maintain the following grade point averages:
   a. Minimum cumulative GPA for all coursework is 2.80.
   b. Minimum cumulative GPA for all music coursework is 3.00.
   c. All required music courses must be completed with C or better.
Evaluation of student progress occurs each semester through an audit and advising system in the Music Education Division. In addition, the progress of all students is reviewed at the completion of the sophomore year by the entire Music Education faculty in order to determine admission to the teacher education track.

Fitness to Teach
Upon being admitted to the teacher education track, the Conservatory and the School of Education have a process in place to assure that all teacher candidates will be assessed throughout their program according to “Fitness to Teach” criteria (the Fitness to Teach Checklist/Referral Form is available from the Music Education Faculty). Additional criteria include:

1. Competed criminal background history review.
2. Meeting academic requirements, including scholastic integrity and good communication skills.
3. Exhibiting personal and professional behaviors, such as appropriate social and interpersonal skills and appropriate dress for professional contexts.
4. Demonstrating appropriate cultural and social attitudes and behavior, including respect for diversity and acceptance of and accommodations for exceptional learners
5. Demonstrating appropriate emotional and cognitive dispositions, such as sound judgment and reflective and analytical thinking.

All teacher candidates will be reviewed semi-annually in the form of aggregated Fitness to Teach Checklist/Referral Form data. Patterns of concern identified in the review may result in a formal review process. Additionally, faculty may choose to refer a teacher education candidate for review at any time by completing the Fitness to Teach Checklist/Referral Form. The review process may result in remediation or removal from the Teacher Education program. Candidates referred for review are expected to participate in the process. Refusal to participate will not terminate the process and may result in removal from the program.

Any teacher candidate referred for review is afforded due process throughout the review proceedings. After all stages of review, a letter of appeal may be submitted to the dean for consideration. The dean’s decision is final.
Field Experience and Student Teaching
Undergraduates begin their final field placement during the fall semester of their final year. Students are assigned to an elementary and secondary school with a cooperating teacher who supervises and mentors them. Students continue in these placements for student teaching during their final semester of the degree. Students are assigned to a school with a master teacher who supervises and mentors them throughout a complete quarter of teaching.

Student teaching, under the guidance of a cooperating teacher and a university supervisor, is the culmination of this program. To be eligible for a student teaching assignment, students must meet the following requirements:
1. Satisfy the retention criteria described above.
2. Have removed all unsatisfactory grades from their records (I, F, etc.).
3. Have successfully passed the Piano Proficiency Examination.
4. Have completed all required course work except student teaching.
5. Have passing scores for Praxis examinations (as specified by Missouri and Kansas).

A student will not be recommended for graduation who has, in the opinion of the Music Education faculty, failed to demonstrate acceptable characteristics and competencies. Upon successful completion of the Music Education program, students are eligible for preK-12 music certification in Missouri and Kansas.

Double Majors
A student who is approved by the faculty for the major in Performance will complete the requirements in both Music Education and Performance. This program is a composite of both programs of study, and may require an additional year of study.

Student Learning Outcomes
The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) and the National Council for the Accreditation of Teacher Education (NCATE) for the training of undergraduate music students. To that end the Conservatory endorses the acquisition of skills in musicianship, education, and general studies.

Musicianship:
Every musician functions to some extent as:
- Performer
- Listener
- Historian
- Composer
- Theorist
- Teacher

Therefore students are required to be exposed to and develop basic competencies in all of these areas. The content of this area includes:
- Sight-singing
- Ear-training
• Harmony
• Keyboard skills
• Counterpoint
• Orchestration/arranging
• Conducting
• Music literature
• Performance practice

Undergraduate musicianship studies focus on:
2. Continued practice in creating, interpreting, presenting, analyzing, and evaluating music.
3. Increasing understanding of various musical cultures and historical periods.
4. Acquiring capacities to integrate musical knowledge and skills.
5. Accumulating capabilities for independent work in the music professions.

Education:
The UMKC Teacher Preparation program seeks to prepare teachers who:
• Have a strong liberal arts education and who are well-grounded in their content field(s).
• Demonstrate the development of pedagogic skills.
• Possess a professional and caring commitment to education.

Program goals are based on a set of key principles and express knowledge, skills and dispositions. These goals reflect the current knowledge base of teacher education as well as a commitment to the preparation of teachers who will be able to practice in schools as they are, and schools as they might be.

Program Goals:
1. The beginning teacher understands the discipline(s) he or she will teach and can create learning experiences that make these aspects of the subject matter meaningful to students.
2. The beginning teacher is able to engage in long range planning and curriculum development and evaluation based upon district, state and national performance standards.
3. The beginning teacher understands how children learn and develop, and can provide opportunities that support their intellectual, social and personal development.
4. The beginning teacher understands and respects students’ differences and creates instructional opportunities that are adapted to diverse learners.
5. The beginning teacher is able to use a variety of instructional strategies to encourage learners’ development of critical thinking, problem solving and process skills.
6. The beginning teacher creates a productive learning environment through the use of individual and group motivation that encourages positive social interaction, active engagement in learning, and self-motivation.
7. The beginning teacher models effective communication techniques (verbal, non-verbal, media, etc.) and facilitates student communication, collaboration and supportive interaction in the classroom.
8. The beginning teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, emotional and physical development of the learner.
9. The beginning teacher is a reflective practitioner who continually evaluates the effects of his/her choices and actions on others and actively seeks opportunities to grow professionally.
10. The beginning teacher fosters relationships with school colleagues, parents and educational partners in the larger community to support student learning and wellbeing.
11. The beginning teacher understands theories and applications of technology in educational settings and has adequate technological skills to create meaningful learning opportunities for all students.

General Studies:
Studies in other areas of human achievement are important in the education of musicians. As a result, students are required to develop an awareness of basic ideas and concepts in:
- Natural and physical sciences
- Social sciences and communication
- Other areas of the arts and humanities

Students are encouraged to view the combination of musicianship and general studies as a means of developing a broad foundation for future artistic and intellectual development.

Bachelor of Music Education Emphasis Areas
The Conservatory of Music and Dance offers a bachelor of music education degree with an emphasis in choral music, instrumental music or music therapy.

Bachelor of Music Education - Choral and Instrumental Emphasis Areas
Students pursuing a BME with an Instrumental or Choral Emphasis may also receive an additional state certificate in their non-primary area by completing the following requirements:

**Instrumental BME with Choral Certificate**
- a. Instrumental Music K12 Certificate 2
- b. Choral Arranging 4
- c. Applied Voice 2
- d. Choral Techniques 2
- e. Advanced Choral Conducting 2
- f. Choral Literature 2
- g. Choral Ensemble 2

**Minimum Total Hours** 14

**Choral BME with Instrumental Certificate**
- a. Choral Music K2 Certificate 2
- b. Methods/Techniques (strings, bass, woodwinds, percussion) 6
- c. Applied Major Instrument 2
- d. Instrumental Ensemble 2
Minimum Total Hours 14

e. Advanced Instrumental Conducting 2
f. Instrumentation/Arranging 2

Bachelor of Music Education - Instrumental Emphasis Area

Required Music Courses

CONSVTY 101
CONSVTY 101C
CONSVTY 110, CONSVTY 123, CONSVTY 223, CONSVTY 310
CONSVTY 121, CONSVTY 122, CONSVTY 221, CONSVTY 222A
CONSVTY 128
CONSVTY 129A, CONSVTY 129B, CONSVTY 229A, CONSVTY 229B
CONSVTY 150
CONSVTY 305 (four semesters)
CONSVTY 154A
CONSVTY 160
CONSVTY 270 (Wind/Percussion students only)
CONSVTY 302 / CONSVTY 306A / CONSVTY 306C (six or seven semesters)
(b)
CONSVTY 323
CONSVTY 351, CONSVTY 352
CONSVTY 358 / CONSVTY 359
CONSVTY 373 (eight semesters)
(c)
CONSVTY 378 CONSVTY 378 (wind and percussion students only)
CONSVTY 381
CONSVTY 383
CONSVTY 385
CONSVTY 386
CONSVTY 405
CONSVTY 425B (String students may substitute
CONSVTY 331, Orchestration I)
CONSVTY 437
CONSVTY 411A / CONSVTY 411B / CONSVTY 411C
CONSVTY 412A/ CONSVTY 412B Student Teaching Music (d)

Required General Studies Courses

ENGLISH 110 and ENGLISH 225
COMM 110Biology
MATH 110 OR MATH 116 HISTORY 101 OR HISTORY 102
PSYCH 210 TCH-ED 427 TCH-ED 403 TCH-ED 404 TCH-ED 420 TCH-ED 419 / TCH-ED 437
(a) A 30-minute recital is required. Applied studies requirement: the performance area may be in
any area which carries applied music study numbers through 401. Those students majoring in a
performing area other than an orchestral instrument must complete 202 level on an orchestral
instrument and be admissible to band or orchestra.
(b) String students must complete seven semesters of major ensemble. Wind and percussion
students must complete six semesters of major ensemble.
(c) Wind and Percussion students will complete a semester each of the following: woodwind,
brass, percussion, and CONSVTY 373P Survey of String Instruments. String students will
complete a semester of the following: woodwind, brass, percussion, and CONSVTY 373A String Techniques Lab plus two more hours at the 101 level (minimum) on the other instrument in their specialty area (i.e.: violin students take viola, cello students take double bass).

(d) Two seven-credit-hour experiences divided between the Conservatory and School of Education provide certification in Music K-12.

Bachelor of Music Education - Music Therapy Emphasis
This program is currently on inactive status.

Teacher Certification:
(see Bachelor of Music Education procedures)

Therapy Certification:
Graduates may apply for membership by writing to the American Music Therapy Association (AMTA). For Board Certification, graduates may write to the Certification Board For Music Therapy (CBMT). All coursework must be completed before beginning CONSVTY 410 Clinical Experience. Therapy students are required to enroll in a professional liability insurance program.

- Prerequisites
  Students must have an ACT score of 21 or higher, or be at the 50th percentile or higher in the high school class rank, or have a high school grade-point average of 2.5 or better.

- Applicants should complete an interview with a music therapy faculty member prior to admission.

- Students who do not achieve these standards (listed above) may be considered for admission, but must meet the standards listed below to progress through the degree.

Retention

Before starting the junior year:
Complete 201 and be admitted into 202 in the applied area of study.
Complete CONSVTY 223 or complete CONSVTY 310, Keyboard Skills IV, with a grade of B- or better.
Compile a GPA of at least 2.8 overall and/or 3.0 GPA in music.
Complete CONSVTY 260, Clinical Foundations of Music Therapy.
Maintain a combined GPA of at least 2.75 in music theory and ear training classes.

Before the student teaching/internship year the student must:
Maintain an overall GPA of at least 2.8, with a 3.0 in music and a 3.0 in music methods classes (128, 385, 386/387) and therapy core classes (CONSVTY 130, CONSVTY 180, CONSVTY 210, CONSVTY 260, CONSVTY 406, CONSVTY 408, CONSVTY 409).
Complete CONSVTY 310, Keyboard Skills IV, with a grade of B- or better.

Area Required Music Courses
CONSVTY 101- CONSVTY 301
CONSVTY 101C
CONSVTY 121, CONSVTY 122, CONSVTY 221, CONSVTY 222A
CONSVTY 128
CONSVTY 129A, CONSVTY 129B, CONSVTY 229A, CONSVTY 229B
CONSVTY 130
CONSVTY 150
CONSVTY 154 (four for choral) (five for instrumental)
CONSVTY 154A
CONSVTY 210A
CONSVTY 210B
CONSVTY 210C
CONSVTY 210D
CONSVTY 210E
CONSVTY 210F
CONSVTY 223, CONSVTY 310
CONSVTY 260
CONSVTY 302/ CONSVTY 306A/ CONSVTY 306C/ CONSVTY 307C/ CONSVTY 308B/
CONSVTY 301C (five semesters)(f)
CONSVTY 315
CONSVTY 316 (for choral only)
CONSVTY 323
CONSVTY 351, CONSVTY 352
CONSVTY 357 (for choral only) (two semesters)
CONSVTY 370 (for choral only)
CONSVTY 373 (four-six semesters)
CONSVTY 380/ CONSVTY 381
CONSVTY 382/ CONSVTY 383
CONSVTY 385
CONSVTY 386/ CONSVTY 387
CONSVTY 405
CONSVTY 406
CONSVTY 408
CONSVTY 409
CONSVTY 410
CONSVTY 424
CONSVTY 425A/B
CONSVTY 435
CONSVTY 437
CONSVTY 411A/ CONSVTY 411B
CONSVTY 412A/ CONSVTY 412B

Area Required General Studies Courses
ENGLISH 110 and ENGLISH 225
LS-PHYS 117
LS-ANATO 118L
COMM-ST 110
HISTORY 101 OR HISTORY 102
POL-SCI 210
MATH 110 OR MATH 116
Sociology/Anthropology
PSYCH 210
PSYCH 433
TCH-ED 427
TCH-ED 403
TCH-ED 404
TCH-ED 405/ TCH-ED 422
TCH-ED 419/ TCH-ED 437

(a) Applied Studies Requirement: The student must complete 301 level in any instrument. No recital is required.
(b) Must be taken concurrently with CONSVTY 260.
(c) Must be taken concurrently with CONSVTY 408.
(d) Must be taken concurrently with CONSVTY 409.
(e) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.
(f) All students whose applied area is voice are required to participate satisfactorily in one opera production as assigned by the choral faculty in consultation with voice and opera faculty.
(g) The instrumental certification track also requires guitar technique (CONSVTY 373G) and one technique class from each of the following areas: woodwinds (except woodwinds III); brass; strings; and percussion; for a total of six instrumental technique classes. The choral certification track will be required to complete Popular Guitar Styles (CONSVTY 316) with prerequisites if needed, and either survey of wind/percussion (CONSVTY 373N) or survey of strings (CONSVTY 373P) for a total of four instrumental technique classes.
(h) Two seven-credit-hour experiences divided between the CONSVTY and School of Education provide certification in Music K-12.
Bachelor of Music Education - Choral Emphasis Area

Required Music Courses
CONSVTY 101- CONSVTY 401
CONSVTY 110, CONSVTY 123, CONSVTY 223, CONSVTY 310
CONSVTY 121, CONSVTY 122, CONSVTY 221, CONSVTY 222A
CONSVTY 128
CONSVTY 129A, CONSVTY 129B, CONSVTY 229A, CONSVTY 229B
CONSVTY 150
CONSVTY 154 (four semesters)
CONSVTY 154A
CONSVTY 171, CONSVTY 172
CONSVTY 307C/ CONSVTY 308A/ CONSVTY 301C (eight semesters)
CONSVTY 331
CONSVTY 351, CONSVTY 352
CONSVTY 357
CONSVTY 370
CONSVTY 373N
CONSVTY 373P
CONSVTY 373G
CONSVTY 380
CONSVTY 382
CONSVTY 385
CONSVTY 387
CONSVTY 405
CONSVTY 425A
CONSVTY 437
CONSVTY 411A/ CONSVTY 411B/ CONSVTY 411C
CONSVTY 412A/ CONSVTY 412B

Required General Studies Courses
ENGLISH 110 and ENGLISH 225
COMM-ST 110
Biology Science with lab
Physical Science OR Acoustics CONSVTY 424
MATH 110 OR MATH 116
HISTORY 101 OR HISTORY 102
POL-SCI 210
PSYCH 210
TCH-ED 427
TCH-ED 403
TCH-ED 404
TCH-ED 420
TCH-ED 419/ TCH-ED 437
(a) A 30-minute recital is required. Applied study requirement (choose one): 1. Voice, 14 hours; 2. Piano, 14 hours; voice (must complete at least 202), eight hours. 3. Organ or guitar, 14 hours; voice (must complete at least 202) eight hours.
(b) All students whose applied area is voice are required to participate satisfactorily in two opera productions as assigned by the choral faculty in consultation with voice and opera faculty.

(c) Two seven-credit-hour experiences divided between the CONSVTY and School of Education provide certification in Music K-12.

**Bachelor of Music Certification Procedures**

**Certification Procedures**

Upon completion of the bachelor of music education degree, students must initiate the application for Missouri and Kansas certification in the Student Services Office of the School of Education. Applications should be filed during the student teaching semester. Certification is not automatic. Elementary and secondary student teaching are required for the K-12 certificate. All prospective teachers must take and receive a satisfactory score on the following tests for state certification:

For Missouri certification, students must receive a satisfactory score on the Praxis II professional knowledge. For Kansas certification, students must receive satisfactory scores on the Pre-Professional Skills Test (PPST) in reading, writing and mathematics, and the Praxis II core test.
Nursing, School of

School of Nursing
Health Sciences Building
Hospital Hill Campus
2464 Charlotte Street
(816) 235-1700
Fax: (816) 235-1701
nurses@umkc.edu
http://www.umkc.edu/nursing/

Mailing Address
University of Missouri-Kansas City
School of Nursing
2464 Charlotte Street
Kansas City, MO 64108

Dean:
Lora Lacey-Haun

Associate Dean for Academic Programs:
Thad Wilson

Associate Dean for Research and Scholarship:
Patricia Kelly

Assistant Dean for Student Affairs:
M. Joy Roberts
History
In 1973-74, a graduate nursing program was started under the aegis of the School of Graduate Studies. On Nov. 16, 1979, the Board of Curators approved a proposal to establish a school of nursing at the University of Missouri-Kansas City. In 1981, following a developmental period, two new curricula were implemented. These were an upper-division baccalaureate degree for registered nurses and a revised master's degree program for clinical nurse specialists. In 1992, the Board of Curators approved the offering of an inter-campus, cooperative doctoral program in nursing (Ph.D. N.D.). The doctoral curricula was implemented on the Kansas City campus in the Fall Semester of 1995. In 2000, the Board of Curators approved the offering of a pre-licensure baccalaureate degree program beginning in the Fall Semester of 2001. The Board of Curators approved the Doctoral of Nursing Practice (DNP) program which began in 2007 and graduated its first post-master's class in December 2008. The newest program in the School of Nursing is the Bachelor of Health Sciences (BHS), which received final approval and began enrolling students in the fall of 2011.

Accreditation
The baccalaureate, master's, and DNP programs at UMKC are accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, DC 20036, (202) 887-6791.
Academic Programs Offered
Please visit the School of Nursing's website at www.umkc.edu/nursing for more specific program information and plans of study for the following programs.

Bachelor of Science in Nursing
Accelerated Track (for students with a previous bachelor's degree) (72 credit hours)
Pre-licensure Track (128 credit hours)
RN-BSN Track (120 credit hours)

Master of Science in Nursing
Adult Nurse Practitioner (42 credit hours)
Family Nurse Practitioner (42 credit hours)
Neonatal Nurse Practitioner (43 credit hours)
Nurse Educator (41 credit hours)
Pediatric Nurse Practitioner (43 credit hours)
Women's Health Nurse Practitioner (42 credit hours)

BSN to DNP (74 credit hours) Beginning Summer Semester 2013, the ANP, FNP, PNP and WHNP will move from the Master of Science in Nursing to the Doctorate of Nursing Practice degree. Visit our website for specific information and applications will be due for this program January 15th of each year.

BSN to PhD (73 credit hours)

Nurse Educator Post Master's Certificate Program (12 credit hours)

Doctorate in Nursing Practice (post master's) (31 credit hours)

PhD in Nursing (61 credit hours)

Facilities
The University of Missouri-Kansas City has extensive educational facilities on the Volker campus combined with the health care educational facilities and main office on the Hospital Hill campus. These include libraries, resource centers, audiovisual resources, data processing and science information specialists. The affiliated clinical facilities include Truman Medical Center, Children's Mercy Hospital and nearly 100 community-wide facilities in the Kansas City metro area.

Admissions
The Office of Admissions is located in room 120, Administrative Center, 5115 Oak St. All applicants should complete the UMKC application for admission. Applications and transcripts should be mailed to the UMKC Office of Admissions, 120 Administrative Center, 5100 Rockhill Road, Kansas City, MO 64110-2499. Go to http://www.umkc.edu/admissions/

The School of Nursing recommends that applicants check the School of Nursing website, specifically undergraduate and graduate degree programs, to access supplemental materials
requested for application and to look at application deadline dates. Deadlines mean that all application materials should have been received. Applications received after these dates may or may not be reviewed depending on available space.

Once admitted, all official University communication is conducted via UMKC e-mail.

Financial Assistance
The School of Nursing offers a range of scholarships, traineeships and other funds for both full- and part-time graduate and undergraduate nursing students. Students who complete the Free Application for Federal Student Aid (FAFSA) are eligible for the following:

- Brisley Phillips Scholarship
- Chuck and Glo Curtis Scholarship
- Claudene L. Iwig Scholarship
- General Hospital Memorial Scholarship
- Goppert Scholarship
- Helen Blond Scholarship
- John S. Waggoner Memorial Nursing Scholarship
- Laura Larkin Dexter Scholarship
- RN - BSN Scholarship
- Susie Sinton Scholarship

Other funds may be available for students demonstrating financial need. Applications for nursing scholarships are considered after submission of the FAFSA. Priority deadline for that submission is March 1. Further information about applications and qualifications for any of these funds may be obtained from the School of Nursing Student Services Office, room 1410, 2464 Charlotte Street, Kansas City, MO 64108-2718.

International Students
The School of Nursing coordinates recruitment, retention and continuing advisement for nursing students from abroad in cooperation with the University's Office of International Student Affairs. In addition to the English proficiency examination (TOEFL), all graduates of foreign schools of nursing must complete the Commission on Graduates of Foreign Nursing Schools (CGFNS) qualifying examinations. This will enable registered nurses applying to the School of Nursing to take the National Council Licensure Examinations (NCLEX) for licensure as a registered nurse in Missouri. Students who are registered nurses must also send official transcripts to the CGFNS to determine degree equivalencies. Information about specific requirements for admission and progression may be obtained from the School of Nursing Student Services Office. The School of Nursing retains the right to assess the level of current clinical skills prior to enrollment in clinical coursework.
**Organizations**

**Student Nurses Association**
Membership in the Student Nurses Association (SNA) is automatic for all students admitted to and enrolled in the School of Nursing's degree programs. Students admitted into pre-nursing are encouraged to attend all meetings. Officers and representatives to the school's standing committees are elected annually. Council meetings and special events are held periodically throughout the academic year.

**Sigma Theta Tau International, Lambda Phi Chapter**
This international nursing honor organization is designed to recognize and encourage superior scholarship and leadership achievements in nursing. Students are eligible for consideration as junior and senior undergraduate students and as continuing graduate students. Membership, based on integrity and scholarship, is by invitation only. The induction of new members is held each spring.

**Nursing Alumni Association**
All students at the School of Nursing qualify for membership in the Nursing Alumni Association. Objectives of the alumni association are to provide mentoring to the student body and garner support for the school. Meetings are held periodically and officers are elected each spring by the Nursing Alumni Board.

**Program Changes**
The School of Nursing reserves the right to make changes in courses, degree requirements and course schedules without notice.

**Academic Regulations in the School of Nursing**
Nursing students are expected to be familiar with policies and procedures specific to their level of study and to review these each semester for updates and changes. These can be found in the UMKC General Catalog and in the School of Nursing's Policies and Procedures manual, which can be found at [http://nursing.umkc.edu/documents/our-school/policy-procedure.pdf](http://nursing.umkc.edu/documents/our-school/policy-procedure.pdf). Students must also be familiar with the Nursing Honor Code found at [http://nursing.umkc.edu/documents/our-school/honor-code.pdf](http://nursing.umkc.edu/documents/our-school/honor-code.pdf).

**Academic and Professional Behavior**
Students in the School of Nursing abide by the University of Missouri Student Conduct Code (listed in the appendices of this catalog) and by the School of Nursing Honor Code. The Standards of Professional and Ethical Behavior detailed in the honor code have been developed to guide students who are enrolled at all levels with the UMKC-SON, including undergraduate and graduate students, and are designed to assure accountability for the professional and ethical standards of the nursing profession.
Nurse Educator Certificate

This post-master's professional certificate program will prepare nurse educators to employ cutting-edge teaching strategies in the didactic and clinical setting, synthesize teaching/learning theories, and acquire skills in curriculum development. Clinical Practicum objectives include the student’s ability to provide didactic and clinical instruction within the academic setting. Hands-on experience in objective writing, teaching, clinical instructing, test writing and student management are offered through educational experiences provided by master educators.

Completion of the program meets the educational requirements to be eligible for the NLN CNE Certification Exam. There are four courses required for the program with a total of 12 credit hours. All courses must be completed within three years.

**Note:** Students are responsible for arranging their clinical preceptor and site for the Practicum course. It is the student’s responsibility to maintain clinical eligibility to practice during the program. It is recommended that the student become comfortable in the clinical setting in preparation for Practicum.

**Program Admission Requirements**
In addition to the admission requirements for UMKC, the requirements for admission into the NEC program are:
- MSN from an accredited nursing program
- Submission of current resume or curricula vitae
- Copy of current licensure as a registered nurse with licensure in the jurisdiction where clinical study is to be conducted

**The Post-Master's NE Certificate Program Courses**
- NURSE 5515NE Preparing Nurse Educators (3 credit hours)
- NURSE 5516 Curriculum Development (3 credit hours)
- NURSE 5517 Teaching Strategies (3 credit hours)
- NURSE 5572NE Synthesis Practicum for Nurse Educators (3 credit hours - Preceptorship Course)
Master of Science in Nursing (M.S.N.)
Graduates of the M.S.N. Program will be prepared to:
   1. Demonstrate advanced knowledge, values and skills in a selected area of nursing.
   2. Demonstrate advanced knowledge, collaboration values and skills in a selected functional role.
   3. Apply the process of systematic inquiry (research) to validate and expand nursing practice.
   4. Integrate theory and research into advanced nursing practice.

Students have the option to attend full-time or part-time. Nurse practitioner students choosing to attend full-time must begin in a summer semester.

Core Courses required of all students:

NURSE 5526 Health Promotion (3)
NURSE 5527 Cultural Diversity & Ethics (3)
NURSE 5528 Policy, Politics & Professional Ethics in Healthcare (3)
NURSE 5550 Theoretical Foundations In Nursing (3)
NURSE 5555 Nursing Research: Evidence-based Practice (3)
NURSE 5598 Directed Research (3)

Additional Courses required for specific tracks:

Adult, Family, Family Psychiatric Mental Health, and Women's Health Nurse Practitioner Tracks:
NURSE 5548 Advanced Pathophysiology (3)
NURSE 5549 Pharmacology for Advanced Nursing Practice (3)
NURSE 5546 Foundations of Family Psychiatric Nursing Advanced Practice (2)
NURSE 5547 Diagnostic Reasoning/Advanced Assessment (4)
NURSE 5564 Primary Care I Courses (5)
NURSE 5566 Primary Care II Courses (4)
NURSE 5572 Advanced Nursing Practice: Synthesis Practicum (5)

Neonatal Nurse Practitioner Track:
NURSE 5548N Physiology/Pathophysiology of the Neonate (3)
NURSE 5549N Pharmacology for the Neonate (3)
NURSE 5547N Advanced Assessment of the Neonate (3)
NURSE 5564N Neonatal Nursing I (3)
NURSE 5566N Neonatal Nursing II (3)
NURSE 5572NI Preceptorship I (5)
NURSE 5572II Preceptorship II (5)

Pediatric Nurse Practitioner Track:
NURSE 5508 Advanced Growth & Development (1)
NURSE 5509 Technology Foundations of Advanced Practice (1)
NURSE 5547C Diagnostic Reasoning/Advanced Assessment (4)
NURSE 5548C Advanced Pediatric Pathophysiology (3)
NURSE 5549C Pediatric Pharmacology for Advanced Nursing Practice (3)
NURSE 5564C Primary Care of Children (4)
NURSE 5566C Chronic Child Health Care (4)
NURSE 5572 Advanced Nursing Practice: Synthesis Practicum (5)

**Nurse Educator Track:**
NURSE 5515NE Preparing Nurse Educators (3)
NURSE 5516 Curriculum Development (3)
NURSE 5517 Teaching Strategies (3)
NURSE 5547NE Health Assessment & Clinical Reasoning for Nurse Educators (3)
NURSE 5548 Advanced Pathophysiology (3)
NURSE 5564NE Clinical for Nurse Educators (5)
NURSE 5572NE Synthesis Practicum for Nurse Educators (3)
Doctor of Nursing Practice Program

Student Learning Outcomes
Graduates of the DNP program will be prepared to:
1. serve as leaders in nursing and health care.
2. demonstrate advanced knowledge, values, and skills in a selected area of nursing.
3. demonstrate advanced knowledge, values, and skills in a selected functional role.
4. synthesize theory, research knowledge and methods to create, implement, and evaluate
   a. practice interventions,
   b. health delivery systems,
   c. clinical teaching.

Program Requirements

Pre-Requisite Coursework:
NURSE 5550 Theoretical Foundations in Nursing (3)
NURSE 5555 Nursing Research: Evidence-Based Practice (3)
NURSE 5612 Statistics I or Graduate Level Statistics Course (3)

Core Coursework:
Summer I
NURSE 5602 Healthcare Systems & Leadership (3) and four days on-site

Fall I
NURSE 5608 Theory I (3)
NURSE 5664 Concepts & Approaches of Epidemiology

Spring I
NURSE 5606 Policy & Advocacy (3)
NURSE 5611 Healthcare Economics & Quality (3)
NURSE 5613 Application of Evidence-based Practice (3)

Summer II
NURSE 5617 Application of Evidence-Based Practice II - DNP Clinical and a 2-4 day site visit

Fall II
NURSE 5620 Advanced Practice V (5) - DNP Clinical

Spring II
NURSE 5624 Clinical Capstone (5)
Ph.D. in Nursing

Program Objectives
The nurse scholars prepared in this program will:

- Serve as leaders in nursing and health care.
- Function as nurse scientists to advance the body of knowledge that guides the practice of nursing and contributes to interdisciplinary knowledge.

Program Requirements
BSN-PhD/Pre-requisite Coursework:
NURSE 5527 Cultural Diversity & Values (3)
NURSE 5528 Policy, Politics & Ethics (e)
NURSE 5550 Theoretical Foundations in Nursing (3)
NURSE 5555 Nursing Research: Evidence-based Practice (3)
Core Coursework:
NURSE 5603 Research Institute I (2)
NURSE 5604 Research Institute II (2)
NURSE 5608 Theory Development I (3)
NURSE 5610 Theory Development II (3)
NURSE 5612 Statistics I (3)
NURSE 5622 Statistics II (3)
NURSE 5631 Substantive Seminar: Health Promotion (3)
NURSE 5662 Psychometrics (3)
NURSE 5668 Quantitative Research Methods (3)
NURSE 5664 Concepts & Approaches of Epidemiology & Statistics in Research (3)
NURSE 5670 Qualitative Research (3)
NURSE 5666 Designing Research (3)
NURSE 5697B Ethics/Responsible Conduct of Research (3 one-hour courses)
Collateral Coursework (12)
NURSE 5699 Dissertation (12)
**Bachelor of Science in Nursing**

Upon graduation the B.S.N. student will:

1. incorporate knowledge from arts, humanities and sciences in the planning and provision of professional nursing care.
2. demonstrate Personal Effectiveness as evidenced by progressing from awareness to knowledge to proficiency in the following competencies: Critical Thinking, Professional Valuing/Caring, and Professional Role Development.
3. demonstrate Interpersonal Effectiveness as evidenced by progressing from awareness to knowledge to proficiency in the following competencies: Communication, Teaching/Learning, and Technology Utilization.
4. demonstrate Effectiveness in Human Health Outcomes as evidenced by progressing from awareness to knowledge to proficiency in the following competencies: Health Promotion and Disease Prevention and Evidence-Based Care.
5. demonstrate Effectiveness Within Complex Health Systems as evidenced by progressing from awareness to knowledge to proficiency in the following competencies: Leadership/Management, Global Perspectives, and Health Care Systems and Policy.

**Baccalaureate Nursing Education**

Baccalaureate nursing education is designed to prepare a nurse generalist who demonstrates responsibility, accountability and critical thinking. The nurse generalist uses a comprehensive approach to health care and can meet diversified health concerns of individuals, families and communities at all stages of development. The University of Missouri-Kansas City offers an innovative program in the management of health. There are three tracks available to complete a Bachelor of Science in Nursing: Pre-licensure track, Accelerated track (for students who already have a bachelor's degree), and RN-BSN track (for students who are already RN's and want to get their B.S.N.).

**Pre-Licensure Program Requirements**

A sample course of study for a full-time pre-licensure track B.S.N. student is listed below. Students must maintain a minimum grade of C in all nursing coursework as well as carry a minimum semester GPA of 2.75. See specific course requirements at the School of Nursing website.

**Fall Semester Year 1 (18 hours)**

A&S 100 Methodologies for Pre-Health (3)
NURSE 101 Introduction to Nursing (2)
NURSE 120 Anatomy and Physiology I (4)
ENGLISH 110 English I (3)
MATH 110 College Algebra (3)
LS-MCRB 112 Microbiology and Man (3)
Spring Semester Year 1 (18 hours)
Apply to Clinical Major
CHEM 115 Chemistry (4)
CHEM 115L Chemistry Lab (1)
NURSE 160 Anatomy and Physiology II (4)
PSYCH 210 General Psychology (3)
POL-SCI 210 American Government (3)
ENGLISH 225 English II (3)
Complete WEPT (or complete Summer Year 1)

Fall Semester Year 2 (18 hours)
Fine Arts Humanities Elective (3)
NURSE 127 Drug Calculations (1)
NURSE 230 Health Issues in Aging (2)
NURSE 220 Fundamental Concepts and Skills (6)
NURSE 250 Health Assessment (3)
NURSE 395 Pathophysiology (3)

Spring Semester Year 2 (17 hours)
CHEM 206 Nutrition (3)
NURSE 252 Human Growth and Development (3)
NURSE 256 Pharmacology (3)
NURSE 262 Management of Adult Health (5)
Writing Intensive Course (3)

Fall Semester Year 3 (16 hours)
PHILOS 210 OR PHILOS 221 or PHILOS 222 (3)
NURSE 342 Legal and Ethical Issues (2)
NURSE 345 Quantitative Analysis in the Health Sciences (3)
NURSE 364 Management of Maternal and Family Health (eight weeks) (4)
NURSE 366 Management of Child and Adolescent Health (eight weeks)(4)

Spring Semester Year 3 (15 hours)
NURSE 356 Applied Spanish for Health Care Pre-Professionals (3)
NURSE 360 Management of Mental Health (4)
NURSE 362 Management of Adult Health II (5)
NURSE 476 Scientific Inquiry (3)

Fall Semester Year 4 (14 hours)
Social-Political Elective (3)
Nursing Elective (2)
NURSE 465 Management of Community Health Nursing (4)
NURSE 467 Management of Critical and Emergent Care (5)
Spring Semester Year 4 (12 hours)
NURSE 462 Special Topics in Health Care (2)
NURSE 468 Effectiveness in Complex Health Systems II (5)
NURSE 472 Clinical Internship (5)

Accelerated Program Requirements
Students in this track must already have a bachelor's degree. A sample course of study for a full-time accelerated B.S.N. student is listed below. Students must maintain a minimum grade of C in all nursing coursework as well as carry a minimum semester GPA of 2.75. See specific course requirements at the School of Nursing website.

Pre-requisite Coursework (22 hours) (Sciences must be no more than five years old at program start in a fall semester)
NURSE 120 Anatomy and Physiology I (4)
NURSE 160 Anatomy and Physiology II (4)
LS-MCRB 112 Microbiology and Man (3)
CHEM 206 Nutrition (3)
CHEM 115 Chemistry (4)
CHEM 115L Chemistry Lab (1)
NURSE 252 Human Growth and Development (3)

Fall Semester Year 1 (16 hours)
NURSE 127 Drug Calculations (1)
NURSE 220 Fundamental Concepts and Skills (6)
NURSE 250 Health Assessment (3)
NURSE 345 Quantitative Analysis in the Health Sciences (3)
NURSE 395 Pathophysiology (3)

Spring Semester Year 1 (16 hours)
NURSE 262 Management of Adult Health (5)
NURSE 256 Pharmacology (3)
NURSE 364 Management of Maternal and Family Health (eight weeks) (4)
NURSE 366 Management of Child and Adolescent Health (eight weeks)(4)

Summer Semester Year 1 (12 hours)
NURSE 360 Management of Mental Health (4)
NURSE 362 Management of Adult Health II (5)
NURSE 476 Scientific Inquiry (3)

Fall Semester Year 2 (13 hours)
NURSE 230 Health Issues in Aging (2)
NURSE 342 Legal and Ethical Issues (2)
NURSE 465 Management of Community Health Nursing (4)
NURSE 467 Management of Critical and Emergent Care (5)
Spring Semester Year 2 (12)
NURSE 462 Special Topics in Health Care (2)
NURSE 468 Effectiveness in Complex Health Systems II (5)
NURSE 472 Clinical Internship (5)

RN-BSN Program Requirements
Students in the online RN-BSN track must already be registered nurses seeking their B.S.N. Students must also reside in the United States and all fees are assessed at the in-state rate. Students must maintain a minimum grade of C in all nursing coursework as well as carry a minimum semester GPA of 2.75. See specific course requirements at the School of Nursing website.

General Education Requirements
Students complete 56 credit hours in general education coursework that may include the humanities, mathematics and social, behavioral and natural sciences. The University requires that all students complete a three-hour constitution course. UMKC courses that currently satisfy this requirement include: HISTORY 101, HISTORY 102, or HISTORY 360R or POL-SCI 210. In addition, students must complete the following, or an equivalent course:
- ENGLISH 110
- ENGLISH 225
- Philosophy Course
- NURSE 345 Statistics (upper-division)
- NURSE 395 Pathophysiology (upper-division)

Nursing Education Requirements
Twenty-eight hours of lower-division nursing credits may be obtained by:
- Direct transfer from a National League for Nursing Accrediting Commission (NLNAC) associate degree program.
- Completion of specific coursework for graduates of diploma programs and non-NLNAC associate degree programs.

Thirty-six hours of upper-division nursing credits are required. The UMKC School of Nursing has developed an innovative program where students, as a cohort group, progress through four "blocks" of coursework. Rather than traditional, individual courses, the curriculum is integrated and based on concepts integral to successful nursing in the changing health care system. Both full- and part-time plans are available.

The nursing curriculum consists of:
NURSE 401 Health Assessment (3)
NURSE 476 Scientific Inquiry (3)
NURSE 481 Tools for Personal Effectiveness (6)
- Introduction to Manuscript for Publication
- Introduction to Theory
- Professionalism
- Historical Roots of Health Professions
- Power Bases and Image
- Time and Stress Management
- Career Mapping
- Scope and Standards of Practice
- Moral Development and Values
- Critical Thinking and Decision Making
- Introduction to Research/Evidence-based Practice
- Ethics
- Introduction to Informatics
- Diversity in the Work Force

**NURSE 482 Tools for Interpersonal Effectiveness (6)**
- Conflict Resolution and Negotiation
- Communication Skills and Theories
- Leading and Managing Change
- Professional Ethics
- Groups and Teams
- Legalities of Health Care
- Marketing
- Informatics
- Nursing, and Public Policy
- Cultural Diversity in Health Care
- Manuscript for Publication Assignment

**NURSE 483 Effectiveness in Human Health Outcomes (6)**
- Theories Used in Care of Humans
- Cultural Competence
- Case Management
- Community Based Care/Public Health
- Epidemiology
- Health Promotion and Restoration
- Health Care Policy
- Precede - Proceed Model
- Bioterrorism Preparedness
- Human Patient Simulation
- Electronic Health Record
- Economics in Health Care
- Health & Inequality
- Vulnerable Populations
- Social Justice in Nursing

**NURSE 484 Effectiveness in Complex Health Systems (6)**
- Managing Quality and Risk
- Systems Theory
- Health Care Delivery and Financing
- Organizational Theories and Culture
- Politics, Use of Legislative System
- Leadership Styles and Theories
- Managing Costs and Budgets
- Magnet Recognition Program
- Health Care Policy Issues
- Staffing, Scheduling & Evaluating Staff
- Practice Issues Related to Technology
- Conducting Nursing Research
- Delegation & Managing Personal/Personnel Problems
- Leading Through Professional Organizations

**NURSE 485 Application to Practice I (clinical practicum) (3)**
- Team-building concepts
- Applied leadership principles
- Applied research and writing skills
- Technology application for project management
- Business communication
- Conflict management

**NURSE 486 Application to Practice II (clinical practicum) (3)**
- Team-building concepts
- Applied leadership principles
- Applied research and writing skills
- Technology application for project management
- Business communication
- Conflict management
Bachelor of Health Sciences
Health Sciences Building
Hospital Hill Campus
2464 Charlotte Street
(816) 235-1700
Fax: (816) 235-1701
http://www.umkc.edu/bhs/

History
In 1973-74, a graduate nursing program was started under the aegis of the School of Graduate Studies. On Nov. 16, 1979, the Board of Curators approved a proposal to establish a school of nursing at the University of Missouri-Kansas City. In 1981, following a developmental period, two new curricula were implemented. These were an upper-division baccalaureate degree for registered nurses and a revised master's degree program for clinical nurse specialists. In 1992, the Board of Curators approved the offering of an inter-campus, cooperative doctoral program in nursing (Ph.D. N.D.). The doctoral curricula was implemented on the Kansas City campus in the Fall Semester of 1995. In 2000, the Board of Curators approved the offering of a pre-licensure baccalaureate degree program beginning in the Fall Semester of 2001. The Board of Curators approved Doctoral of Nursing Practice (DNP) program began in 2007 and graduated its first post-masters class in December 2008. The newest program in the School of Nursing is the Bachelor of Health Sciences (BHS), which received final approval and began enrolling students in the fall of 2011.

Facilities
The University of Missouri-Kansas City has extensive educational facilities on the Volker campus combined with the health care educational facilities and main office on the Hospital Hill campus. These include libraries, resource centers, Financial Aid Office, Health Science book store, audiovisual resources, data processing and science information specialists.

Program Outcomes
• Interdisciplinary processes health teams:
Students will be exposed to interdisciplinary approaches to health and will learn how interdisciplinary services are related to improved health outcomes. Through writing, discussion, team projects, and service-learning, students will demonstrate an understanding of the importance of professional collaboration, effective communication, and team planning.

• Science of health and life span development:
Students will have fundamental knowledge of the factors contributing to health and health issues across the life span.

• Health services in multicultural settings:
Students will identify the key components of cultural competency and will understand the unique challenges of health in urban settings and underserved populations.

• Health policy and ethics:
Students will have a strong foundation in health economics, policy, and social issues. Graduates will also learn about professional standards and ethical behavior, especially as pertinent to health.
• **Research Methods:** Students will become familiar with the application of research methods to improve health. Students will understand the components of evidence-based health services.

• **Effective Communications:** Students will demonstrate professional conduct and interpersonal skills when interacting with other health professionals and the public.

• **Leadership:** Students will demonstrate leadership skills through completion of a leadership project in the capstone course.

• **Technology:** Students will be familiar with the use of technology in health, both at a personal and institutional level.

**What is a Bachelor of Health Sciences?**
Building on a sound liberal arts education, the BHS includes a basic science component combined with coursework in health sciences. The UMKC BHS Degree Program offers a comprehensive curriculum designed to prepare students for a wide variety of health-related careers or to pursue post-graduate health education. The UMKC BHS Degree Program, offered through the UMKC School of Nursing, includes coursework in the physical, biological, behavioral, business and social aspects of health.

**What can I do with a Bachelor of Health Sciences?**
The UMKC BHS Degree Program is the perfect choice for students who are interested in a career in health focusing on health prevention, health promotion, population health, and health behavior change. UMKC is offering the new BHS Degree in response to the growing workforce demand for health professionals in a variety of areas including, personal health and wellness, social determinants of health, occupational health and safety, community health, and environmental health. Graduates may find career options in government settings, non-for profit organizations, community health centers, workplace health and wellness companies, and health promotion organizations.

**Bachelor of Health Sciences Program Requirements**
A sample course of study for a full-time BHS student is listed below. Students must earn a minimum grade of C in all HLSC and science coursework and a minimum grade of D in all other courses. To remain academically eligible, a minimum semester GPA of 2.00 must be maintained.

**Fall Semester Year 1 (16 hours)**
- HLSC 101 Introduction to Health Sciences (3)
- HLSC 120 Anatomy and Physiology I (4)
- ENGLISH 110 English I (3)
- ART-HIST 100 (or CONSVTY 120 or THEATRE 130) (3)

**Spring Semester Year 1 (15 hours)**
- MATH 110 College Algebra (3)
- HLSC 160 Anatomy and Physiology II (4)
- HLSC 230 Health Issues in Aging (2)
- POL-SCI 210 or HISTORY 101 OR HISTORY 102 Am. Govt./Constitution (3)
- ENGLISH 225 English II (3)
Fall Semester Year 2 (17 hours)
PSYCH 210 General Psychology (3)
Foreign Language I (5)
HLSC 110 Personal Wellness (3)
PHILOS 210 OR PHILOS 221 or PHILOS 222 (3)
SOCIOL 101 Introduction to Sociology (3)

Spring Semester Year 2 (15 hours)
HLSC 252 Human Growth & Development (3)
HLSC 280 Medical Terminology/Health Records (3)
HLSC 356 or Foreign Language 2 (3) or (5)
CHEM 206 Nutrition (3)
Elective (3)

Fall Semester Year 3 (15 hours)
HLSC 345 Quantitative Analysis in the Health Sciences (3)
HLSC 300 Diversity in Health (3)
HLSC 310 Healthcare Systems (3)
Elective (3)
Elective (3)

Spring Semester Year 3 (15 hours)
HLSC 476 Scientific Inquiry (3)
HLSC 410 Epidemiology (3)
HLSC 430 Health Program Mgmt (3)
HLSC 440 Policy & Ethics in Health (3)
Elective (3)

Fall Semester Year 4 (15 hours)
HLSC 450 Urban Health (3)
HLSC 460 Global Health (3)
HLSC 470 Technology, Marketing, & Media in Health (3)
HLSC 480 Leadership & Management in Health Professions(3)
Elective (3)

Spring Semester Year 4 (12 hours)
HLSC 492 Health Science Specialty Course (3)
HLSC 494 Health Science Capstone (6)
Elective (3)
Pharmacy, School of

Health Sciences Building
Hospital Hill Campus
2464 Charlotte Street
(816) 235-1609
Fax: (816) 235-5190
(816) 235-1613 (Student Services)
Fax: (816) 235-5562 (Student Services)
pharmacy@umkc.edu
pharmacy.umkc.edu

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Associate Dean for Student Affairs:
Patricia A. Marken

Associate Dean for UMKC School of Pharmacy at MU:
Kathleen A. Snella
General Information

History
Originally organized in 1885 as the Pharmaceutical Department of the University of Kansas City, the school was reorganized and reincorporated in 1898 as the Kansas City College of Pharmacy and Natural Science. In 1943, this forerunner of the present school joined the University of Kansas City as its third professional school.

When the University of Kansas City was incorporated into the University of Missouri System in 1963, the School of Pharmacy became the only state-supported pharmacy school in Missouri. In October 1985, the school observed its centennial celebration, commemorating 100 years of progress in pharmaceutical education, research and service.

The School of Pharmacy is a member of the American Association of Colleges of Pharmacy (AACP). The doctor of pharmacy program is accredited by the Accreditation Council for Pharmacy Education (ACPE). Information about ACPE can be found at http://www.acpe-accredit.org.

Degrees Offered
The School of Pharmacy offers the advanced professional degree of doctor of pharmacy. In addition, the School of Pharmacy participates in the School of Graduate Studies Interdisciplinary Ph.D. program with emphasis areas in pharmaceutical sciences and pharmacology and toxicology. Students pursuing Interdisciplinary Ph.D. study should consult the School of Graduate Studies section of this catalog for degree requirements and other academic regulations applicable to the degree program.

UMKC 2012-13 Pharmacy, School of Page 2
The UMKC School of Pharmacy offers a Pharm.D. program on the University of Missouri-Columbia (MU) campus in conjunction with the School of Health Professions. The traditional program location (UMKC campus) and the program offered on the MU campus encompass four years of professional study after completion of the required pre-pharmacy coursework. Although Pharm.D. students enrolled at MU are physically located in Columbia, these students are considered UMKC students. Students accepted into the UMKC Pharm.D. program at MU will complete the same basic science and some elective courses in traditional classroom settings on the Columbia campus, whereas students accepted to the traditional program will complete coursework on the UMKC campus. The majority of the pharmacy specific courses offered on the UMKC campus are transmitted via distance education technology from UMKC specialized classrooms to specialized classrooms at MU. Students and instructors at both campus locations are able to interact during lecture/discussions. Students accepted to the UMKC Pharm.D. program at MU cannot, however, be dually enrolled in separate degree programs on the MU campus.

**Career Applications**
The Ph.D. degree is the highest academic degree offered in any American university. It is a research degree. Merely attaining high grades in didactic coursework and passing examinations is insufficient demonstration of merit for this degree. Obtaining the Ph.D. degree requires demonstration of the highest order of scholarship; diligent and inventive pursuit of a research program; and defense of a dissertation based upon original research.

The Ph.D. is usually a requirement for obtaining tenure track appointment to university faculties or to senior-level appointments in research and development in pharmaceutical and related industries, research institutes and in government.

**Advising System**
**Student Support - Academic and Professional Development Advising**
Upon entry into the doctor of pharmacy program, each student is assigned a professional development adviser (PDA). The PDA is a faculty member who serves as a mentor during the program. If students are experiencing difficulties, whether academic or personal, or if seeking more in-depth information about the curriculum or career paths, they should seek counsel from their PDA. It is important that students keep in contact with their PDA throughout the program. Academic Advisers in the Pharmacy Student Services Office also work closely with pre-pharmacy and current pharmacy students to provide assistance during the application and admission process, ensuring proper admission requirements and matriculation procedures are met. After entry, academic advisers assist students through subsequent enrollment and progression requirements and through final graduation completion. Academic advisers act as liaisons to various campus services and departments of the campus community and can link students with resources to address any academic or personal issues.
Both the academic advisers and the PDAs are familiar with sources of assistance and will help students seek the best solution to their problems. Building a strong relationship with both advisers is strongly encouraged. Students that encounter academic difficulty during the program, may be required to meet with their advisers.

The School of Pharmacy offers a variety of services to assist students in support of the academic experience. For more information: http://pharmacy.umkc.edu/student-affairs/ and http://pharmacy.umkc.edu/current-students

Libraries
The University Libraries provide the full spectrum of information services to support study and research in pharmacy. For additional information, consult the University Libraries section of this catalog.

Student Services
The School of Pharmacy offers a variety of services to assist students in support of the academic experience.

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Student services, which are available not only through the School of Pharmacy, but throughout the University, are outlined in the Division of Student Affairs section of this catalog.

Student Life

Student Government
The student body annually elects an Executive Pharmacy Student Council from each campus, which consists of the presidential officers, secretary, historian, treasurer and student pharmacy advocacy representative of the student chapter of the American Pharmacists Association, the Academy of Student Pharmacists (APhA-ASP), one Student Government Association representative and two representatives from each class. This group supervises the annual student activities budget process and recommends students to represent the student body on various campus committees.

The Script
A student-administered, student-oriented newsletter, The Script, is published several times each semester by the American Pharmacists Association Academy of Student Pharmacists (APhA-ASP) at UMKC. Its purpose is to inform the student body, as well as the faculty and staff of student activities and achievements, announce available opportunities and report on developments affecting student life. It is a primary vehicle of communication within the school. Articles are welcomed from any student, student organization, faculty or staff member.
Student Organizations

The UMKC School of Pharmacy hosts a number of very active pharmacy student organizations. The following organizations are recognized by the UMKC Student Involvement Office. UMKC students routinely win local, regional and national awards for their outstanding community service and commitment to patient care. General descriptions of each organization can be found at http://pharmacy.umkc.edu/current-students/.

- Academy of Managed Care Pharmacy (AMCP)
- American Association of Pharmaceutical Scientists (AAPS)
- American Pharmacists Association Academy of Student Pharmacists (APhA-ASP)
- Kappa Epsilon
- Kappa Psi
- National Community Pharmacists Association (NCPA)
- Pharmaceutical Sciences Graduate Student Association
- Phi Lambda Sigma
- Pre-Pharmacy Society
- Public Health Organization
- Rho Chi
- Student College of Clinical Pharmacy (SCCP)
- Student Society of Health-System Pharmacists (SSHP)

Scholarships, Special Awards and Financial Assistance

The Dean's List
At the end of each semester, the names of full-time doctor of pharmacy students whose term GPA is 3.5 or higher are placed on the dean's list. These students receive a letter of congratulations and a notation is placed on their permanent records. Students must complete a minimum full-time program of 12 graded hours to qualify for the dean's list. The credit/no credit option may not be used as part of the 12 hours.

Degrees With Honors
Students who meet the academic standards prescribed by the faculty will be graduated "with honors." The criteria for Latin honors eligibility is as follows:
Doctor of Pharmacy (Pharm.D.) Students

**Summa Cum Laude**
- Pharmacy GPA* greater than or equal to 3.750.
- No periods of probation.
- No incidents of unprofessional behavior.

No more than 5% of the graduating class will be awarded Summa Cum Laude honors. If more than 5% of the class qualifies under the criteria above, the GPA criteria will be raised and students below the revised GPA will be awarded their degrees with Magna Cum Laude honors.

**Magna Cum Laude**
- Pharmacy GPA* greater than or equal to 3.600.
- No periods of probation.
- No incidents of unprofessional behavior.

No more than 5% of the graduating class will be awarded Magna Cum Laude honors. If more than 5% of the class qualifies under the criteria above, the GPA criteria will be raised and students below the revised GPA will be awarded their degrees with Cum Laude honors.

**Cum Laude**
- Pharmacy GPA* greater than or equal to 3.500.
- No periods of probation.
- No incidents of unprofessional behavior.

No more than 10% of the graduating class will be awarded Cum Laude honors. If more than 10% of the class qualifies under the criteria above, the GPA criteria will be raised and students below the revised GPA will be awarded their degrees without Latin honors.

* GPA for Latin honors is the School of Pharmacy GPA on all courses completed at UMKC through the end of the 9th semester of the professional program.

**Graduation Awards**
At the annual spring pharmacy commencement ceremony, seniors receiving graduation awards are recognized. At that time, recognition is given to graduating students for superior academic achievement, leadership, and service. Selection of the recipients, except where noted otherwise, is made by vote of the pharmacy faculty in conjunction with the scholarship and awards committee.

**Achievers of Excellence Awards Ceremony**
Each fall an awards ceremony is held to recognize those students in the School of Pharmacy who receive scholarships or awards from the school, the university or the school's constituent groups. Most of these awards are competitive and are confirmed by the scholarship and awards committee.
**Student Leadership Recognition**
Annually, student leaders are recognized for their efforts on behalf of the school and the university.

**Doctor of Pharmacy Graduation Awards**

**Douglas Adcock Memorial Award**
An annual cash award established in memory of Douglas Adcock, a 1977 graduate of the School of Pharmacy, is presented to a student who plans a career in the public health service or who exhibits the ability to overcome adversity with professionalism.

**Pharmacy Alumni Association Award**
The Alumni Association of the School of Pharmacy gives an engraved plaque to the graduate who has exhibited outstanding leadership in school affairs. Selection is made by the board of directors of the Pharmacy Alumni Association in conjunction with the scholarship and financial aid committee.

**The American College of Apothecaries Award**
The graduating student who intends to practice in an independent community pharmacy after graduation and who has shown outstanding scholastic achievement and participation in school activities receives an engraved silver bowl from the American College of Apothecaries.

**American Pharmacists Association Service Award**
A certificate is presented by the American Pharmacists Association-Academy of Student Pharmacists (APhA-ASP) to the graduating student who has done the most for the student branch of the association. Selection is made by the APhA-ASP Executive Board.

**First DataBank Medical Writing Award**
An *Evaluations of Drug Interactions* loose leaf edition is presented to a graduating doctor of pharmacy student who has demonstrated excellence in medical writing.

**Mitzi McGee Memorial Award**
An annual cash award established in memory of Mitzi McGee, a 1977 graduate of the School of Pharmacy, is presented to a female member of the graduating class who, while in school, has been active in professional pharmacy affairs, especially those which affect the status of women in pharmacy. Preference will be given to a married student.

**Merck Awards**
Merck & Company Inc. of Rahway, N.J., presents a Merck Manual and Merck Index to graduating students for noteworthy academic achievement in the area of pharmaceutical chemistry.

**Mylan Pharmaceutical Excellence in Pharmacy Award**
Mylan Pharmaceuticals Inc. of Birmingham, Ala., presents a plaque and a limited edition lithograph to a graduate in the top 20 percent of the class who exhibits exceptional skills in the area of drug information dissemination.
The Natural Medicines Comprehensive Database Award
Recognition is presented to the senior student who has shown an interest in the use of natural medicines. The recipient also must have proven academic and extracurricular activities demonstrating outstanding promise in the assessment, evaluation and delivery of patient care related to the use of natural medicines. The recipient receives a copy of the natural medicines comprehensive database, a subscription to the Natural Medicines Continuing Education series and a certificate.

Pharmacists Mutual Award
One year of pharmacists liability insurance is presented by the Pharmacists Mutual Insurance Co. of Algona, Iowa, to a graduate, based on academic achievement and professional pharmacy outlook.

Pharmacy Student Organization Awards
Honors are presented to graduating students based on a combination of scholastic achievement, strength of character, dedication and leadership evidenced during residency in the School of Pharmacy as a member of a university recognized pharmacy student organization. Selection is made by the respective pharmacy student organization officers.

TEVA Outstanding Student Award
A personalized plaque and cash award are presented by TEVA Pharmaceuticals of Sellersville, Pa., to a graduate. The criteria are scholastic achievement, professional pharmacy outlook and participation in school activities.

United States Public Health Service Excellence in Public Health Pharmacy Practice Award
A framed certificate and book award is presented to a graduate whose public and community service efforts are recognized.

Fall Awards
Grace Hoelzel Albano Scholarship
This scholarship is awarded to a doctor of pharmacy student who is in good academic standing. Preference is given to a female student who is in the second or third year of school. Consideration is also given for involvement in pharmacy student or alumni activities and programs.

Fred Angle Scholarship
This scholarship is awarded to a professional pharmacy student in their third, fourth or fifth year, with a minimum 3.0 grade point average. Preference is given to a student who indicates as their first choice a career with a community pharmacy and who has preferably served an internship with a community pharmacy.

Baptist-Trinity Lutheran Legacy Foundation Scholarship
This scholarship is awarded to a fifth-year professional pharmacy student with a minimum 3.0 grade point average. Preference is given to a student who indicates as their first choice a career with a hospital pharmacy following graduation and who plans to stay in the Kansas City metropolitan area following graduation.
Wright V. and Gladys A. Bartholomew Scholarship
This scholarship is awarded competitively to a Pharm.D. student entering the third semester of the professional program in the School of Pharmacy. The student must have expressed interest in entering community pharmacy practice after graduation. Pending satisfactory academic performance, this scholarship can be renewed for a maximum of four additional semesters.

Mary and Francis "Bud" Bisceglia Memorial Scholarship
This memorial scholarship is awarded to a second- or third-year Pharm.D. student interested in community pharmacy practice.

Dennis R. Bond Scholarship
This scholarship is awarded to a professional pharmacy student in their third, fourth or fifth year, with a minimum 2.5 grade point average. Preference is given to a student who indicates as their first choice a career with an independent or independent chain pharmacy following graduation and who has served an internship with an independent pharmacy.

Lewis Bratt Scholarship
This scholarship will be awarded to a student who has an interest in independent community pharmacy. Financial need will be taken into consideration.

Donald R. Brown Scholarship
This scholarship is awarded to a professional pharmacy student who is eligible to receive financial aid and is in good standing academically. Preference is given to an applicant who is a direct descendant of Robert C. and Belva A. Brown, or Forrest and Eloise Walker. Without an available applicant who is a direct descendant of the Browns or Walkers, preference is given to a student from the southwest Missouri area. Additional consideration is given to an applicant seeking a pharmacy career in a Missouri community with a population of less than 40,000.

Burch and Sabo Scholarship
This scholarship is awarded to a professional pharmacy student in their third, fourth or fifth year, with a minimum 2.5 grade point average and a strong performance as a leader within the School of Pharmacy and community. Preference is given to a student who indicates as their first choice a career in the pharmacy industry following graduation and who has preferably served an internship with a pharmaceutical industry organization.

Isaac Butler "Not Can, But How" Scholarship
This scholarship is awarded to a professional pharmacy student in their 3rd, 4th, or 5th year with a minimum 3.0 GPA. Preference shall be given first to a multi-cultural pharmacy student and then secondarily to a pharmacy student with a demonstrated interest in a career in managed care or other related area of pharmacy with plans to practice in Missouri following graduation. A letter of reference for each student applicant from a pharmacist will be required as part of the student’s scholarship application with preference that the letter be written by Dr. Isaac Butler or his designee.
Century Club Grants
The UMKC Pharmacy Foundation awards these grants to third-year Pharm.D. students who intend to practice in a hospital or other clinical setting.

Class of 1975 Scholarship
This scholarship shall be awarded to a professional pharmacy student in their 2nd, 3rd, 4th or 5th year with a minimum 2.5 GPA. Preference shall be given to a student who has demonstrated volunteerism, leadership, or other involvement with the Pharmacy Foundation, the Pharmacy Alumni Association, or the UMKC School of Pharmacy.

Class of 1982 Scholarship
This scholarship is awarded to a professional pharmacy student in their third, fourth or fifth year, with a minimum 2.5 grade point average. Preference is given to a student who has demonstrated volunteerism, leadership or other involvement with the Pharmacy Foundation, the Pharmacy Alumni Association or the School of Pharmacy.

CVS Pharmacy Community Scholarships
CVS awards scholarships to four Pharm.D. students entering the second professional year who plan to practice community pharmacy after graduation.

D & H Prescription Drug Store Scholarship
This scholarship will be awarded to a student in the UMKC School of Pharmacy satellite program located on the campus of the University of Missouri Columbia with the following criteria:
1. Student is a high school graduate of Audrain, Boone, Cole, Cooper or Callaway counties in the State of Missouri
2. Student is a current Missouri resident
3. Student indicates a preference for a career in an independent pharmacy following graduation
4. Student is in the high need category for financial aid
Students may fit more than one of these criteria; if so, they are added together. Example: the student is from Boone County, Missouri and indicates a preference for a career in an independent pharmacy, they would then qualify for criteria (a) and (c) listed above.

Glenn and Adele Eberhart Scholarship
Scholarship Criteria Pending

Leslie Eisenbrandt Scholarship
A stipend is awarded to a student in years three through five of the professional pharmacy program who is excelling academically and qualifies for financial aid.

Erickson Family Scholarship
Preference for this award will be given to a student who is a direct descendant of J. Stephen Erickson and/or K. Clydean Erickson and/or their brothers or sisters; employed by The Drug Store of Cameron, Missouri and from a town of less than 20,000 in population or is employed by a privately held (independent) pharmacy company. Applicants must have a letter of
recommendation from a currently employed pharmacist of The Drug Store of Cameron, Missouri.

**Mary and Tim Euler Student Mentor Award**
This award is given to a professional pharmacy student in their fourth or fifth year, with a minimum 2.5 grade point average. Preference is given to a student who has sustained leadership on behalf of the School of Pharmacy; who has served as a role model and mentor to other students aspiring to leadership positions, and shows care and concern for his/her peers.

**Fendler Family Scholarship**
One scholarship will be disbursed each year to a student in the School of Pharmacy who is eligible to receive financial aid and is in good standing academically. Preference will be made to a minority applicant who is an entering first year professional degree student with demonstrated leadership experience and significant financial need.

**Kathy McClary Fife Memorial Scholarship**
This scholarship is awarded to a student who applies for admission to and attends the University of Utah School on Alcoholism and Other Drug Dependencies summer program, to help defray the expenses of attending the program. The recipient is selected by Mr. Bert McClary and the executive director of the Pharmacy Foundation.

**Spencer S. Glenn Memorial Scholarship**
This scholarship recognizes the superior pursuits of a doctor of pharmacy student with a record of clinical research abilities and academic achievement was established. Selection preference is given to married students who are U.S. citizens and Missouri residents.

**Glenski Family Scholarship**
An award is presented to a doctor of pharmacy student in years three through five of the professional pharmacy curriculum who has maintained a cumulative School of Pharmacy GPA of 3.0. The student must be involved in extracurricular activities with a community service emphasis. Preference will be given to a student who has a family member who is either in a health-care profession or is a UMKC alumnus.

**Good Neighbor Pharmacy Community Scholarship**
Eight student scholarships will be disbursed to students within the School of Pharmacy who are eligible to receive financial aid and are in good standing academically. Preference will be made to applicants in their 4th and 5th years of Pharmacy School with a demonstrated interest in community pharmacy and plans to practice in either Missouri or Kansas following graduation. A letter of reference for each student applicant from a local community or independent pharmacist will be required as a part of the student’s scholarship application.

**Travis and Maqual Graham Scholarship**
One student scholarship will be disbursed each year to a fourth or fifth year Pharm.D. student interested in obtaining clinical post-doctoral training, who is in good academic standing, and is involved in community healthcare initiatives. The recipient must also be eligible to receive financial aid in the current academic year.
Greater Kansas City Society of Health-System Pharmacists (GKCSHP) Book Scholarship  
This scholarship is awarded by the GKCSHP to a second-year doctor of pharmacy student who plans to pursue a career in hospital pharmacy.

Donald W. Grove Scholarship  
This scholarship is awarded to doctor of pharmacy students in their third, fourth, or fifth year with a minimum 2.5 grade point average. Preference is given to students who indicate as their first choice a career in independent/community pharmacy and who have served an internship with an independent pharmacy.

George Guastello Scholarship  
This scholarship recognizes a deserving fourth or fifth year pharmacy student interested in practicing in a community pharmacy setting. Applicants' financial need will be considered.

Harvey H. Haynes Scholarship  
This scholarship shall be awarded to a third-year pharmacy student planning to work in an independent pharmacy in a rural area with a population less than 10,000. Financial need is not a consideration.

Judith Hemberger Graduate Scholarship  
This scholarship shall be awarded to a female graduate student enrolled in the UMKC School of Pharmacy’s Division of Pharmacology and Toxicology or Pharmaceutical Sciences, with a minimum grade point average of 3.0. Preference is given to United States citizens. The scholarship recipient shall be chosen by the UMKC School of Pharmacy Scholarship and Awards Committee.

Bruce J. "Bud" Huber Memorial Scholarship  
This is scholarship for a Pharm.D. student in years two through five who has a minimum cumulative GPA of 3.0 and documented involvement in extracurricular activities in the area of service. Priority should be given to a pharmacy technician or intern of Express Pharmacy, or to an older, returning student. Financial need is considered.

Richard D. Johnson Undergraduate Pharmaceutical Sciences Award  
This award is given to undergraduate and professional students in the last year of the program who are engaged in graduate-level laboratory research projects. Financial need is not to be considered. The dean and donor or his designee shall select the recipient.

Dr. Debbie and Paul Kavanaugh Scholarship  
This scholarship shall be awarded to a doctor of pharmacy student based on evidence of financial need.

Kappa Epsilon Community Services Scholarship  
This scholarship shall be awarded to a professional pharmacy student in their 2nd, 3rd, 4th or 5th year with a minimum 3.0 GPA. Preference shall be given to a pharmacy student who is a member of Kappa Epsilon in good standing. A letter of reference for each applicant from a
A pharmacist is required as part of the student’s scholarship application. Scholarship award recipients will be determined by the dean of the School of Pharmacy and his/her assigned committee with selection input from the Kappa Epsilon chapter advisor.

**Kilgore's Medical Pharmacy Scholarship**  
The recipient of this scholarship must be in the high category for financial aid. The recipient must be enrolled in the Pharm.D. satellite program on the University of Missouri-Columbia campus. Preference shall be given to students who graduated from a high school in Boone, Cole, Moniteau, Cooper, Howard, Randolph, Audrain, or Callaway counties in Missouri.

**Robert C. Lanman Pharmacology Scholarship**  
Eligible students must be fully admitted to the Interdisciplinary Ph.D. program with pharmacology as their emphasis area and have successfully completed no less than two semesters of full-time course work. Applicants must have an earned cumulative grade point average of no less than 3.0 and proof of financial need.

**Rocky and Laurie Levell Scholarships**  
These scholarships shall be awarded to two Pharm.D. students who are eligible to receive financial aid and are in good standing academically. Each student should demonstrate a compassionate attitude toward others and be involved in extracurricular activities in the community. Preference will be given to students with an interest in geriatric care who plan to practice in an independent or community pharmacy upon graduation.

**Lindman-Gershman Scholarship**  
A scholarship for a student in the doctor of pharmacy program with financial need.

**Monica E. Manasseh Scholarship**  
This scholarship shall be awarded to a pharmacy student in their 3rd, 4th, or 5th year (P4, P5 or P6) in good academic standing. Preference shall be given to a minority student who is an active member of the Academy of Managed Care Pharmacists (AMCP) chapter with a demonstrated interest in a career in managed care or hospital pharmacy following graduation. A letter of reference for each student applicant from a pharmacist will be required as part of the student’s scholarship application with preference that the letter be written by Dr. Fredrick Manasseh or his designee.

**Alexander and Mary Margolis and Bernard A. Margolis Perpetual Memorial Scholarship**  
This scholarship is awarded to a pharmacy student enrolled in years one through five of the professional program who has financial need.

**Wes McIntire Scholarship**  
This scholarship is awarded to a fifth-year professional year student who is a Kappa Psi Brother and who has been actively involved throughout their membership. This brother must have been either a Kappa Psi officer or organized the Wes McIntire Volley for Charity event held annually in the spring. The scholarship recipient is selected by the Kappa Psi members.
J. Leo McMahon Grant
A stipend is awarded to a second professional year student who represents the caring and professional attitudes of Leo McMahon.

Joe McNerney Pharmacy Leadership Scholarship
This award is given to any female or minority doctor of pharmacy student or pre-pharmacy student with anticipated entry into the Pharm.D. program who has demonstrated leadership abilities. Financial need should be taken into consideration.

Medicine Shoppe International Scholarship
Doctor of pharmacy students with an interest in community pharmacy or community oriented extracurricular activities may receive this scholarship. This award is not given every year.

Stephanie and Russell Melchert Scholarship
This scholarship will be awarded annually to a doctor of pharmacy student who is in good standing academically. Preference will be made to an applicant who has demonstrated leadership through extracurricular pharmacy programs or volunteer work. Additional consideration shall be given to a student seeking a career in higher education or pharmacy academia. Scholarship award recipients will be determined by the dean of the School of Pharmacy or his/her assigned committee.

Mid-Missouri Society of Health-System Pharmacists Scholarship
This scholarship will be awarded to a student in the UMKC School of Pharmacy satellite program located on the University of Missouri-Columbia campus based on a point system. Points are assigned by the following criteria: a student who is a member of the Missouri Society of Health-Systems Pharmacists; student is presently employed by a health-systems pharmacy; student is a high school graduate of Boone, Cole, Cooper or Callaway counties in the state of Missouri; student is currently a Missouri resident and student should be in the high need category for financial aid. Student may re-apply and receive the award for more than one year.

Missouri Pharmacy Foundation Scholarship
The Missouri Pharmacy Foundation provides a scholarship to a third year Pharm.D. student who is a Missouri resident. The recipient should be on track with his or her class and have maintained a minimum cumulative 2.5 GPA during the first two years of the pharmacy program. The recipient should be planning on a career in Missouri and have demonstrated involvement in his or her community.

Tim Mitchell Scholarship
This scholarship shall be awarded to an active UMKC National Community Pharmacists Association student member in their third, fourth, or fifth professional year in the Pharm.D. program. The student must be in good standing.

Timothy G. Mitchell Scholarship
This scholarship is awarded to one Pharm.D. student in the second through fifth year in good academic and professional standing. The student must have a stated career interest in community pharmacy, with preference given to those with interest in independent pharmacy.
National Association of Chain Drug Stores (NACDS) Scholarship
Awarded to a Pharm.D. student who intends to pursue a career in chain community pharmacy practice after graduation. Financial need is taken into consideration.

NCPA/William E. Osborn Scholarship
This scholarship shall be awarded to a professional pharmacy student in their 2nd, 3rd, 4th or 5th year with a minimum 2.5 GPA. Preference shall be given to a student seeking a career with an independent pharmacy following graduation and with plans to practice in either Missouri or Kansas.

Jim Newman Memorial Scholarship
A stipend is awarded to a doctor of pharmacy student in years 3-5 who has financial need. Preference is given to a student from Joplin or Southwest Missouri.

Noel O. Nuessle Scholarship
This scholarship is awarded to a professional pharmacy student in their 2nd, 3rd, 4th or 5th year with a minimum 2.5 GPA. Preference shall be given to a student with serious financial needs that could impact their ability to remain in school.

Nyberg Pharmacy Independent Pharmacy Scholarship
An award is made available to a doctor of pharmacy student, regardless of practice interests or year in school, who maintains a minimum 2.5 GPA and is a Missouri resident. Financial need is considered. This award not given every year.

Robert W. Piepho Scholarship
This scholarship shall be awarded to a professional pharmacy student in their third, fourth or fifth year who demonstrates extraordinary leadership qualities. Preference shall be given to a student who has held an elected office while in pharmacy school or has developed an innovative service project. Financial need should be taken into consideration.

PBA Health / TrueCare Pharmacy Scholarship
This scholarship is awarded annually to deserving doctor of pharmacy students in the last three years of the curriculum. Students must have a minimum of 500 intern hours in independent pharmacy and a minimum 2.5 GPA.

Pharmacists Mutual Scholarship Award
This scholarship is awarded annually to a second-year doctor of pharmacy student who intends to practice pharmacy in a community setting after graduation.

Plattsburg Clinic Pharmacy Scholarship
This scholarship is awarded to a doctor of pharmacy student in their first through fifth year with a minimum 2.5 grade point average. Preference is given to a student who indicates as their first choice a career in independent/community pharmacy and to residents of Plattsburg, Lathrop, or Gower, Missouri, or Clinton county in Missouri.
Powers Family Scholarship
This scholarship shall be awarded to a professional pharmacy student in their 3rd, 4th or 5th (P4, P5 or P6) with a minimum 2.5 GPA. Preferences shall be given to a student who indicates as their first choice a career in independent/community pharmacy and who has served an internship with an independent pharmacy. It is also requested that the student applicant’s letter of reference come from an independent pharmacist.

Prescription Solutions Scholarship
Two student scholarships will be disbursed to students in the UMKC School of Pharmacy who are eligible to receive financial aid and are in good standing academically. Preference will be made to applicants in their 4th and 5th years in the School of Pharmacy with a demonstrated interest in a career with a mail order pharmacy and managed care with plans to practice in either Missouri or Kansas following graduation. A letter of reference for each student applicant from a pharmacist will be required as part of the student’s scholarship application.

RAN Institute Award
Awarded to a female pharmacy student who has demonstrated an interest in and documented activities of strong entrepreneurial ambitions, active involvement in UMKC athletic programs and financial need.

Red Cross Pharmacy Scholarship
Preference for this award will be given to a student who is: a direct descendant of Benjamin R. Hartwig, employed by Red Cross Pharmacy and/or from a Red Cross Pharmacy market area, from a town of less than 20,000 in population, or is employed by a privately held (independent) pharmacy company. Each applicant must have a letter of recommendation from a currently employed pharmacist of Red Cross Pharmacy.

Stanley M. Reinhaus Family Foundation Scholarship
Second-year doctor of pharmacy students with a minimum 2.75 GPA may apply for this award. Applicants must be interested in hospital or community pharmacy, be a Missouri resident and plan to work in Missouri after graduation with no plans of pursuing an advanced degree. Applicants must have financial need. The award is renewable.

Thomas D. Ross Memorial Graduate Scholarship
This scholarship shall be awarded to a graduate student majoring in Pharmacology. Selection preference will be given to those applicants who meet the following criteria: United States citizen, Missouri resident, and married. The scholarship recipient shall be chosen by the UMKC School of Pharmacy Scholarship and Awards Committee, with recommendations from the School’s Graduate Programs Committee.

Toni Sena Memorial Scholarship
This scholarship shall be awarded to a student in the Pharm.D. program with a minimum 2.5 GPA and to a student who shows evidence of an earnest pursuit of a pharmacy degree.
Joseph G. Shalinsky Scholarship
The scholarship recipient must have achieved academic success (minimum 3.0 cumulative GPA), and an interest in practicing in a community pharmacy setting after graduation. Applicants' significant financial need should be demonstrated.

Leo Shalinsky Scholarship
The recipient of the award should be a second- or third-year Pharm.D. pharmacy student interested in practicing in a retail pharmacy. The applicant must have a minimum 2.5 GPA average, be involved in extracurricular activities and have a financial need.

Morris R. Shlensky Award
The Morris R. Shlensky award was originally made available through officers of the Katz Drug Co., (now CVS), specifically for professional pharmacy students. Financial need or high scholastic achievement should be demonstrated. The award is renewable for one additional semester.

William and Carole Sitland Scholarship
One student scholarship will be disbursed each year to a third, fourth or fifth year student at the UMKC School of Pharmacy is eligible to receive financial aid and is in good standing academically. Preference will be made to students who demonstrate the personal characteristics of integrity, a strong work ethic, generosity of spirit and a commitment to quality in all that they do for the profession of pharmacy. Special consideration will be given to students who also demonstrate excellent verbal and written communication skills.

Smock Family Scholarship
This scholarship shall be awarded to a third, fourth or fifth year student that currently is in good standing, currently obtains the bulk of his/her academic funding through financial aid programs, and who has an interest in community or independent pharmacy practice.

Andrea and Dale Smith Scholarship
This scholarship shall be awarded to doctor of pharmacy students in their 2nd, 3rd or 4th year who are in good standing academically. Preference will be made to applicants with demonstrated leadership experience and significant financial need. Secondary preference will be made to applicants seeking a post-graduate career in independent pharmacy. A letter of reference for each student applicant from a local community or independent pharmacist will be required as a part of the student’s scholarship application.

Anthony J. Spalitto, Sr. Scholarship
Awarded to a doctor of pharmacy student in years two through four who has a minimum 2.5 GPA and has expressed interest in independent community pharmacy. Financial need will be taken into consideration.

Spalitto Pharmacy Scholarship
This scholarship is awarded to a professional pharmacy student in their third, fourth or fifth year, with a minimum 2.5 grade point average. Preference is given to a student who indicates as their
first choice a career with an independent or independent chain pharmacy and who has preferably served an internship with an independent pharmacy.

**Bruce and Shirley Stocker Scholarship**
The applicant for this scholarship must be either a Missouri or Kansas full-time resident in years one through five of the professional pharmacy program. The applicant must have maintained a minimum 3.0 GPA, have expressed an interest in pursuing a career in institutional pharmacy and be or planning to be involved in the appropriate professional pharmacy organizations (i.e., MSHP, KSHP, ASHP). Financial need will be taken into consideration.

**David A. Strauch Scholarship**
One or two student scholarship(s) will be disbursed each year to a 1st through 4th year student(s) in the UMKC School of Pharmacy who demonstrates financial need, who is in good academic standing and shows evidence of leadership experience. Preference will be given to a student wishing to pursue a career with an independent pharmacy and/or in a community of less than 10,000 people following graduation. The student must be eligible to receive financial aid in the current academic year.

**Evelyn F. Suffecool/Esther C. Plank Scholarships**
Preference for these awards is given to students entering the first professional year and/or the provisional program with evidenced financial need.

**Harry N. Tishk Scholarship**
Awarded to a first year doctor of pharmacy student with evidence of financial need. The student must have been a provisional student the year prior to receiving the award.

**Fred Tonnies Scholarship**
This scholarship shall be awarded to a doctor of pharmacy student based on a point system. Points are assigned by the following criteria: a student who is a graduate of a high school in Boone County, Mo., is a past or current employee at the University of Missouri-Columbia Hospitals & Clinics, minimum cumulative 3.6 GPA and financial need.

**Phyllis Vaughn Scholarship**
This scholarship will be awarded to a doctor of pharmacy student in the second through fifth year of the professional pharmacy program who expresses a caring and friendly attitude toward others. Preference will be given to a student who exemplifies this attitude through involvement in extracurricular activities helping people. Financial need will be taken into consideration.

**Walgreens Student Scholarship**
This is an annual award to a pharmacy student entering their final professional year. The student should have demonstrated outstanding leadership and communication skills and have an interest in community pharmacy practice.
Wal-Mart Scholarship
This scholarship is awarded to a fourth- or fifth-year Pharm.D. student who has an interest in pursuing a career in community pharmacy and who has demonstrated leadership qualities and high scholastic standing. Financial need should be considered.

Marcus and Missy Wilson Family Scholarship
This scholarship supports pharmacy students participating in an international rotation. The recipients are selected by Marcus and Missy Wilson.

Mathew W. "Bill" Wilson Scholarship
This scholarship is awarded to a third-year professional student whose integrity and professionalism matches that of Bill Wilson.

Kathleen Tonnies Scholarship
This scholarship shall be awarded to a doctor of pharmacy student based on a point system. Points are assigned by the following criteria: a student who is a graduate of a high school in Boone County, Mo., is a past or current employee at the University of Missouri-Columbia Hospitals & Clinics, minimum cumulative 3.6 GPA and financial need.

Lawrence G. Windmoeller/Mid-Missouri Society of Health-System Pharmacists Scholarship
This scholarship will be awarded to a student in UMKC School of Pharmacy satellite program with the following criteria:
- Student is a member of the Missouri Society of Health-Systems Pharmacists
- Student is presently employed by a health-systems pharmacy
- Student is a high school graduate of Boone, Cole, Cooper or Callaway counties in the state of Missouri
- Student is currently a Missouri resident
- The student should be in the high need category for financial aid.

Lawrence G. Windmoeller/Mid-Missouri Society of Health-System Pharmacists Scholarship
Students may fit more than one of these criteria; if so, they are then added together. Example: the student is from Columbia, Mo., works at a health-system pharmacy, and is a member of MSHP; they would then qualify for criteria (a), (b) and (c) listed above.

Robert L. Wolf Memorial Scholarship
This scholarship is awarded to a professional pharmacy student in their third, fourth or fifth year, with a minimum 2.5 grade point average. Preference is given to a student who indicates as their first choice a career with either an independent or independent chain pharmacy, or a career in the Public Health Service as a pharmacist. Preference is given to a student who has served an internship with an independent pharmacy or the Public Health Service.

Other Financial Assistance and Awards

Gracia Bremer Loan Fund
An endowment through the unitrust of Gracia Bremer and Mercantile Bank was established in 1996 for pharmacy students enrolled in years one through five of the first professional program who need additional financial support while pursuing a pharmacy degree.
George H. Hargrave Pharmacy Student Loan Fund
An endowment through the unitrust of George H. and Edith L. Hargrave was established in 1994 for pharmacy students enrolled in years one through five of the first professional program who need additional financial support while pursuing a pharmacy degree.

State Licensure Requirements
Students planning to practice the profession of pharmacy are required to satisfy the licensure requirements of the state in which they intend to practice. Licensure requirements vary, therefore, information concerning these requirements should be obtained by contacting the board of pharmacy of the state concerned.

Students accepted and enrolled in the doctor of pharmacy curriculum are required to obtain a valid Pharmacist Intern License issued by the Missouri Board of Pharmacy or provide proof of application submission for a license in order to fully participate/continue in the curriculum. The Missouri Pharmacist Intern License must remain valid through the last Advanced Pharmacy Practice Experience. Successful completion of all portions of the curriculum, both credit and non-credit requirements, are necessary for a student to meet graduation requirements and accrue sufficient internship hours toward pharmacist licensure eligibility.

The state of Missouri requires that an applicant for pharmacist licensure be 21 years of age, a graduate of an accredited school of pharmacy approved by the state's board of pharmacy and have on file with the board proof of 1,500 hours of internship experience in a retail/community or hospital pharmacy under the supervision of a registered pharmacist/preceptor. Students attending a pharmacy school in the state of Missouri must complete three rotations through the school's externship program of at least 160 hours each, for a total of 480 hours which will satisfy the internship requirements. Refer to the Missouri Board of Pharmacy website for the most up-to-date information as requirements can change at any time. Kansas internship requirements are presently 1,500 hours also.

Career Applications
Pharmacy Careers
A number of graduates choose to practice in community and hospital pharmacies, but a wide variety of career possibilities in the pharmacy profession are available. Pharmacists have a wide spectrum of practice environments to chose from in which their professional skills can be applied. Career information can be found through a variety of pharmacy professional associations. For information about these, see http://pharmacy.umkc.edu/admissions/pharmd/faq/
The doctor of pharmacy program also provides an appropriate academic base for students wishing to enter graduate study in the pharmaceutical sciences, chemistry and biology. Others have gone on to pursue degrees in medicine, dentistry and law.

Postgraduate training in the form of a residency and optional fellowship is recommended for all doctor of pharmacy graduates seeking advanced career opportunities in industry or academia.
Interdisciplinary Ph.D. Degree Requirements in Pharmaceutical Sciences and Pharmacology
See discipline-specific requirements for the Interdisciplinary Ph.D. program in Pharmaceutical Sciences and Pharmacology.

Academic Regulations and Requirements

Class Attendance
Regular attendance at classes is strongly recommended for students to progress satisfactorily through the pharmacy curriculum. Required attendance, however, is left to the discretion of the individual instructor and course coordinator. Students are responsible for familiarizing themselves with all course requirements and assignments.

Students are to report absences to the course coordinator as outlined in individual course policies (e.g., syllabus, course outline). Absences for official school or University activities will be handled through the course coordinator. The course coordinator must be notified prior to the event or activity. In either event, any notice sent to the course coordinator is for purposes of information only and does not relieve students of any responsibilities for completing work missed in their absence or non-adherence to individual course policies.

Absences from Scheduled Examinations
Unless specified otherwise on the course syllabus, students may be excused from a scheduled examination if they notify the course coordinator of their absence in advance of the examination and present a statement from their private physician confirming their illness on their return. The manner in which a justified absence from an examination will be made up will be determined by the course coordinator. Instructors do reserve the right to hold examinations outside of regularly scheduled class times. Such examinations will be noted in the School of Pharmacy schedule of classes.

Students may not be given an opportunity to make up an unexcused absence from an examination, and their scores shall be recorded as zero for a numerically scored exam and F for a letter-graded examination.

The only exceptions to this rule shall be when the student's absence is traumatic in nature (e.g., automobile accident, sudden death in family, etc.) or when prior arrangements have been made with the course coordinator.

Academic Loads
All coursework in the pharmacy curriculum is sequential and success depends upon the instruction and content from the previous semester and builds upon knowledge needed for subsequent semesters. Pharmacy students must enroll for the total program as outlined for each semester in the most current version of the curriculum.

Exceptions to Pharmacy Curriculum
Students are expected to satisfactorily complete all required courses and noncredit requirements in the pharmacy curriculum. Any exception to the normal curriculum must be approved by the school's Committee on Admissions and Academic Requirements. Petitions for Exception must
be submitted to the committee for its consideration at least one month prior to the start of the semester for which the exception is being requested.

Concurrent Enrollment
A pharmacy student may not enroll at another institution while also enrolled at UMKC unless prior approval has been obtained from the Committee on Admissions and Academic Requirements. Approval requires completion of a petition for exception or a Kansas City Area Student Exchange Program (KCASE) form. KCASE applications are available from the Registrar's Office.

Grading System
Refer to the grade-point system listed in the General Undergraduate Academic Regulations and Information section of this catalog and to the individual course syllabi. Note: Letter grade changes must be made no later than four weeks from the beginning of the next semester, to include summers, unless a shorter time frame be affixed by a course coordinator. This policy applies to School of Pharmacy division courses only and does not apply to incomplete grades. Doctor of Pharmacy students are not eligible for GPA Adjustment through the UMKC repeated courses policy.

Academic Standing for Doctor of Pharmacy Students
A student’s academic standing is determined by their academic performance while progressing through the curriculum.

Terms and Definitions Associated with Academic Standing:
1. **Good Academic Standing**: A student not on academic probation nor on a readmission contract.
2. **Academic Concern**: Less than a C grade on a test or major assignment. Students meeting criteria for Academic Concern will be monitored through the Student Success Program.
3. **Academic Probation**: Less than a 2.00 term grade point average (GPA), with no grades of D, F, WF, or NC, or less than a 2.00 cumulative GPA in any one semester.
4. **Academic Dismissal**: Dismissal occurs for any of the following circumstances:
   - Receipt of a D, F, WF, or a NC grade in any coursework in a single semester
   - Receipt of less than a 2.0 term GPA while on academic probation
   - Placement on Academic Probation two consecutive semesters
   - Placement on Academic Probation more than two non-consecutive semesters

   Students who withdraw from required coursework are ineligible to continue in the regular curriculum unless approved course equivalents can be successfully completed during the subsequent term.

5. **Readmission on Academic Contract**: A student who is academically dismissed can apply for readmission to the Doctor of Pharmacy program. If a student is readmitted, they are placed on an academic contract and must meet the conditions of their contract throughout the rest of their time as a UMKC pharmacy student. A student will not be readmitted if:
   - They were dismissed for a second time after failing to meet the terms of their academic contract. A second dismissal causes the student to be irrevocably dismissed from the Doctor of Pharmacy program.
• They were a first year student who become academically ineligible to continue at the end of their first semester. Those students must reapply to the Doctor of Pharmacy program through the regular admission process if wishing to seek re-entry.

**Leave of Absence:**

Pharmacy students can petition for a leave of absence under the following stipulations:

- Student is eligible for reentry into the program.
- Petition must be initiated during the current term no later than the 12th week of class. Petitions for leaves due to catastrophic events will be given an exception.
- Petition includes a personal statement detailing reason for leave.
- Documentation from a health care professional is required supporting reason for leave if reason for leave is medical.
- Documentation from Department of Defense if leave is for military departure

Pharmacy students approved for leave of absence:

- Will be withdrawn from all courses as per University policy.
- Are approved for up to one year leave only. An extension may be requested if needed and well documented; the request for an extension cannot extend more than one year. Students who do not return by the date noted on their approved leave and who are not granted an approved extension will be required to reapply for admission.
- Will not be enrolled for pharmacy coursework in the subsequent semester(s) and must notify the Board of Pharmacy and their current pharmacy employer of the change in status as they are ineligible to maintain any current pharmacy intern license.

A student on a leave of absence will **not**:

- Be eligible for any financial aid disbursements during the semester(s) while on a leave of absence. A student on a leave of absence will be reported to lenders and loan service agencies as “non-attending” and will need to contact his/her lenders for information on possible repayment requirements, deferments and forbearances.
- Have access to campus computing labs, Student Health and Wellness Services, or any campus or university services available only to currently enrolled students. Students on a leave will be able to maintain their UMKC exchange email account, however.

**Reasons for the Policy**
The UMKC School of Pharmacy recognizes that students admitted to professional studies occasionally encounter academic difficulty. The reasons for encountering academic difficulty are diverse and may include financial pressure, inadequate study skills and personal situations. The School of Pharmacy has established policies designed to give all students an opportunity to be reinstated following withdrawal or poor academic performance.
Procedures for Students Placed on Academic Probation

All cases of probation will be reviewed by the Committee for Academic Requirements to determine the reasons for the unsatisfactory progress. Following review, the chair of the Academic Requirements Committee will notify the student of the Academic Probation status by letter. In order to be removed from Academic Probation status, the student must:

- Receive no less than a 2.00 term GPA in the next academic semester;
- Raise their cumulative GPA above 2.00 in the next academic semester.

Procedures for Students Eligible for Readmission

1. **Readmission Post Leave of Absence**

   Petitions for readmission after a leave of absence will be reviewed by the Admissions Committee. Re-entry is contingent on their eligibility to continue, results of a new Criminal Background Check and space available in the class the student seeks to re-enter. Pharmacy students returning from a leave of absence must:

   - Submit the petition for re-entry at least two months prior to the beginning of the term applying for re-entry. Upon re-entry will continue under the student’s same academic standing status that was in place at the time the leave of absence began.
   - Be held under the policies and procedures in place at the time of their re-entry.
   - Complete a Criminal Background Check
   - Supply a letter from a health professional and/or other entity verifying that the student can return to full-time, collegiate work.
   - Provide any additional documentation from other entities as required by the School to assess readiness for readmission.
   - Incorporate any curricular or policy changes into plan of study. Program and graduation requirements may change during a student’s leave of absence. It is at the discretion of the School to define the program and graduation requirements once the student has been approved to return from a leave of absence.

1. **Readmission of Eligible Students Post Academic Dismissal**

   Any student who is dismissed from the Doctor of Pharmacy program is notified in writing by the Chair of the Committee for Academic Requirements. Any student dismissed because of academic deficiencies cannot continue until the Dean or designee has rendered a decision on their petition for re-entry.

   The following steps must be followed in order for an eligible student to be readmitted:

   1. Prepare the petition:
      - Meet with their Professional Development Adviser (PDA) to discuss their current situation and develop a petition for re-entry into the Doctor of Pharmacy Program. (See School of Pharmacy website at http://pharmacy.umkc.edu/docs/stuser/Petition.pdf for petition form). Student prints and signs the petition form. The petition must also be reviewed and signed by the student’s PDA.
      - The objective section of the petition must state the student’s intent. Options may include:
         - Immediate re-entry into the Doctor of Pharmacy program to complete professional elective coursework only and restart required coursework the subsequent year.
Immediate re-entry into the Doctor of Pharmacy program to complete pharmacy coursework with their original class upon entry (this option is only possible if there is a remedial course that can be completed or student can complete their prerequisites before moving the next semester

Change of major and complete coursework not associated with the Doctor of Pharmacy program for a semester, but that counts towards an alternate degree with plans to reapply during a subsequent term to a different class year. Students who wish to petition for re-entry and are eligible must submit a petition no later than one year after dismissal occurred.

The petition must also include:

- How they are better prepared for a professional program
- A curricular plan based on coursework in need of completion and academic readiness
- Corrective measures taken by the student since her/his dismissal. Corrective measures may include reduction in work hours, additional tutoring, decreasing commitments to student organization, or support through the Counseling Center.
- Plans to repeat any course in which a grade of less than C was achieved as well as complete related coursework in a single semester for a minimum of 12 credit hours.

Note: Any student who is eligible for readmission works with their PDA to prepare the petition. A student who is not eligible for readmission can work the Associate Dean for Student Affairs or the Director of Student Affairs regarding options for their academic career beyond pharmacy and with an Academic Advisor from Student Services regarding logistics of transferring to another major. PDA’s cannot advise students who are academically ineligible to continue in the program and should refer them to the Associate Dean for Student Affairs or the Director of Student Affairs.

1. Submit the petition to the Office of Student Services at least one week prior to the start of the semester for which the exception or request is being made. Any deviation from this deadline must be approved by the Associate Dean for Student Affairs. Petitions will not be accepted unless the petition has been reviewed and signed by the PDA or their designee.
2. Petitions are reviewed by the School of Pharmacy Dean or designee to determine the reason for unsatisfactory progress. The dean or designee will consider petitions based on:
   - Performance in previous course work completed by the student and other circumstances surrounding their dismissal
   - Corrective measures taken by the student to address academic readiness, financial problems, personal matters, and/or course work deficiencies,
   - Availability of space in the professional class the student seeks to enter
   - Successful completion of all required course work prior to the semester the student seeks to enter.

1. Petition is accepted, denied, or modified by the Dean or designee. The student will be notified in writing as to the decision. If granted, a written contract containing the terms of readmission is generated by the Dean or their designee. Terms of a readmission contract
are determined on a case by case basis. The student may be assigned to their original campus location or to an alternative campus location based upon space availability. This written contract is signed by the student and placed in their academic file.

Conditions of readmission include, but are not limited to:

- The student remains on academic contract and continues to meet the terms of their contract for the duration of their tenure in the Doctor of Pharmacy program.
- The student meets with their PDA as set forth in the readmission contract.
- The student does not receive any grades of NC, D, F or WF in any course during the remainder of their tenure in the Doctor of Pharmacy program.
- The student successfully completes sequence I before sequence II of courses that carry the I and II designation

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**Noncredit Requirements**

All doctor of pharmacy students are expected to actively participate in professional activities offered or required by the School of Pharmacy. These activities mirror those expected in professional practice and are intended to better prepare the student for professional life. The following are requirements for all Pharm.D. students. Students will be notified if additional certifications or requirements apply.

The following requirements apply to Doctor of Pharmacy students (as defined for each item), unless a waiver is obtained from the appropriate school official:

**Career Fair**

All students must attend and participate at the Pharmacy Career Enhancement and Professional Preparation Day during their senior year unless previously excused, in writing, in advance of the event by the Dean or designee.

**Certifications in Basic Cardiac Life Support/Cardio Pulmonary Resuscitation (BCLS/CPR) for Health Professionals and First Aid Training**

All students must complete BCLS/CPR and First Aid. Certification must be uploaded in E-Value prior to enrollment in summer Introductory Pharmacy Practice Experiences [IPPE] or in Academic Service Learning. The certification must be valid through the last Advanced Pharmacy Practice Experiential [APPE] rotation.

**Criminal Background Checks (CBCs)**

The University, on behalf of the School of Pharmacy, agrees to inform students that as a condition of full admission to the Doctor of Pharmacy program and for participating in any affiliated institution or site [academic service learning and/or introductory and advanced pharmacy practice experiential rotations], they must obtain and provide verification of a current, criminal background check prior to that student's assignment at an affiliated hospital/institution/practice site. The affiliated hospital/institution/practice site hereby understands and agrees that the decision to permit a student to participate at that affiliated hospital/institution/practice site on the basis of the result of any criminal background check remains solely with the affiliated hospital/institution and not the University. Failure on the
student's part to submit to criminal background checks will delay progression or render a student unable to complete the professional degree program.

**Drug Screens**
Pharmacy students may be subject to random drug screens as a condition of participation in experiential education and patient care activities. The drug screen will be collected as per the policy and procedures of the site requesting the information. If the school is made aware of the results of any positive findings, they will be shared with the Associate Dean for Student Affairs for further evaluation.

Students may be required to complete random drug screens as part of compliance with the UMKC School of Pharmacy Alcohol and Drug Use Policy.

**HIPAA**
Students must successfully complete the University of Missouri online HIPAA tutorial *annually* starting prior to summer IPPE’s.
- [http://www.muhealth.org/~compliance/modules.shtml](http://www.muhealth.org/~compliance/modules.shtml)
- Select “HIPAA Online Education Module”

Note: completing the online HIPAA course does not relieve students from having to complete additional training as required by any individual practice site.

**Intern Pharmacist Licensure**
Students enrolled in the Doctor of Pharmacy curriculum at UMKC are required to obtain a valid Intern Pharmacist License issued by the Missouri Board of Pharmacy or provide proof of application submission for a license by the start of semester three in order to fully participate in the curriculum. The Missouri Intern Pharmacist License must remain valid through the last Advanced Pharmacy Practice Experience.

In order to apply and maintain a valid Missouri Intern Pharmacist License the following rules apply:

- Doctor of Pharmacy students must successfully complete [grade of C- or higher] all curricular requirements in semester one and two in order to apply for a Missouri Intern Pharmacist License.
- Pharmacist Intern License applications and renewals can take up to four to six weeks to be processed by the Missouri Board of Pharmacy so students should plan accordingly.
- Photocopies of all documentation (initial application and all accompanying materials) must be submitted by the student to the School of Pharmacy Student Services Office.
- Restrictions placed on any state Pharmacy Intern License by disciplinary action of a State Board of Pharmacy are reviewed by the Committee on Admissions and Academic Requirements on a case-by-case basis to evaluate if the student may participate in the curriculum. A student who holds any state Pharmacy Intern License with restrictions will be referred to the UMKC School of Pharmacy Honor Council for appropriate action.
- Disciplinary actions by any State Board of Pharmacy must be reported by the student to the Assistant/Associate Dean of Student Affairs within 30 days. Photocopies of all
disciplinary actions must be provided by the student. Failure to report disciplinary actions on a Pharmacy Intern License within 30 days will be considered academic dishonesty and all such cases will be referred to the UMKC School of Pharmacy Honor Council for appropriate action.

- Loss of a valid Pharmacy Intern License by disciplinary action of a State Board of Pharmacy renders the student ineligible to continue in the Doctor of Pharmacy curriculum.
- A student not eligible to continue in the Doctor of Pharmacy curriculum for any reason must notify the Missouri Board of Pharmacy and their current pharmacy employer if working in a pharmacy regarding the change in academic status.
- Successful completion of all portions of the curriculum, both credit and non-credit requirements, are necessary for a student to meet graduation requirements and accrue sufficient Internship hours toward pharmacist licensure eligibility.
- For more information and directions go to
  
  http://pharmacy.umkc.edu/docs/stuser/Pharmacy_Internship_Information_12.pdf

**Intern Pharmacist Liability**

Students must provide proof of liability insurance prior to enrollment in Academic Service Learning (ASL) and IPPE. The insurance must remain valid through the last APPE rotation.


**Laptop/Tablet Requirements**

All School of Pharmacy students are **required** to have a wireless capable mobile device (i.e., laptop computer, netbook, tablet device) as equipment to perform assignments and class activities. The **MU Tiger Tech** program through the MU Bookstore and the **UMKC RooTech** program through the UMKC Bookstore offer a selection of hardware and software, financing options and services at educational prices. **There is no required brand or model.** The mobile device must meet the following minimum capabilities and software requirements.

*Functional Capabilities:*
- Wireless capable
- Internet Browser (Internet Explorer, Mozilla Firefox, Safari, Google Chrome, etc.)
- Word Processing capable (view, edit, create Word documents)
- Microsoft Office suites available at discounted student prices at bookstore
- Internal/external video camera
- Internal/external microphone

*Software Requirements:*
- Virus Protection Software (McAfee, Norton, Microsoft Security Essentials, etc.)
- Adobe Acrobat Reader (Free)

*Tablet Applications:*
- Citrix Receiver™ application for Android/iOS (free application)
- Tegrity application for Android/iOS (free application)

**Missouri Family Care Registry List**

All students must register prior to enrollment in their summer IPPE. See E-Value for instructions.
Immunization Requirements
Health care providers (HCP) are at risk for contracting and transmitting infectious diseases as a result of contact with their patients. All students must adhere to the UMKC Doctor of Pharmacy Student immunization requirements for their own protection and the protection of their patients. Submission of immunization certificates are a condition of acceptance and must be on file in the Office of Experiential Programs and remain current throughout students tenure in the Pharm.D. program according to the following requirements:


Pharm.D. Orientation
All entering students must attend and participate in all sessions of the Doctor of Pharmacy orientation prior to full matriculation into the First Professional Year unless they are excused, in writing, in advance of the event by the Dean or designee.

Professionalism Policies
Students must adhere to the all Professionalism Standards

Standards of Professional and Ethical Conduct and Honor Council Procedures
All students entering the Doctor of Pharmacy program receive a copy of the school's Honor Council Procedures and Standards of Professional and Ethical Behavior. These policies and procedures provide peer and faculty review to ensure these standards are upheld by each pharmacy student. In all cases of academic dishonesty, the instructor shall make an academic assessment about the student's grade on that work and in that course.

- http://pharmacy.umkc.edu/docs/stuser/Course_Policy-Professional_Ethical_Behavior.pdf

Standards of Professional Attire and Classroom Behavior
Upon acceptance and entry into the School of Pharmacy, students begin a process of developing the knowledge, skills and attitudes that creates the fundamental core of the profession of pharmacy. The development of these competencies to a practitioner's level takes several years, but early initiation of these professional behaviors promotes the development of professionalism. In order to provide students direction to this end, upon entering the Doctor of Pharmacy program all students receive a copy of the school's Standards of Professional Attire and Classroom Etiquette and must abide by these standards.

- http://pharmacy.umkc.edu/docs/stuser/Course_Policy-Professional_Attire-Classroom_Etiquette.pdf

Safety Training
All pharmacy students are required to attend and complete required safety training and receive certification beginning with the First Professional Year and maintain certifications on an annual basis to include, but not limited to, Blood Borne Pathogens, Fire Hazard, Chemical Management, and Hazard Communication.
University of Missouri Code of Conduct Online Tutorial
The tutorial is completed by all Columbia-based students prior to enrollment in their summer IPPE and then retaken annually. Kansas City students will also complete the tutorial if they complete a rotation within the University Healthcare System.
  • http://muhealth.org/body.cfm?id=475

White Coat Ceremony
All students are expected to attend and participate in the School of Pharmacy Professional Dedication Ceremony during the appropriate semester, unless previously excused, in writing, in advance of the event by the Dean or designee.

Note: The School of Pharmacy reserves the right to add other noncredit requirements as deemed necessary to protect the health and safety of the students or to further their education.

Directed Individual Study
The opportunity to undertake independent study is offered through Pharmacy 7497 courses. These courses may satisfy part of the professional elective requirement. Generally, the student receives the individual attention of a professor in the chosen field of study, and the project may involve any topic considered appropriate to the academic needs of the student. Once the student and instructor have agreed on a project, a permission-to-enroll form that includes an outline of the proposed course of study signed by the instructor must be reviewed and approved for credit by the school's curriculum committee. This must be done at least one month prior to the start of the term in which the coursework is to commence. Pharmacy 7497 requests that are part of a national, regional, or local competitive proposal or any part of a student organizational initiative may not be used for Directed Individual Study proposals.

No more than five credit hours of Pharmacy 7497 courses may be counted toward the degree requirements. Pharmacy 7497 courses are offered on a credit/no credit basis only.

Off-campus Learning Experiences
All Pharm.D. students are required to participate in experiential learning rotations. All of the experiential learning courses are conducted in actual practice settings (e.g., community, hospitals, nursing homes, etc.) under the supervision of licensed pharmacy practitioners— instructors who serve as exemplary role models in their particular types of pharmacy practice. Students are expected to provide their own transportation to sites assigned for the experiential learning.

Experiential sites may be located outside the Kansas City area. During the Introductory and Advanced Pharmacy Practice Experiential rotations, living and travel expenses are the responsibility of the student. Other expenses may apply.

Outside Employment
Because of the intensity of the professional curriculum, students are strongly urged to limit outside employment to no more than 10 hours per week while enrolled in the school. Students
experiencing academic difficulties as a result of commitments to outside employment may be asked by the school's committee on admissions and academic requirements to stop outside work until their academic difficulties are resolved.

**Additional Policies and Stipulations**

Students should refer to the UMKC School of Pharmacy website for additional policies and required forms.

**Note:** Program requirements and course descriptions are subject to change without notice after publication of this catalog. Pharmacy students are encouraged to remain in contact with their professional development adviser and professional staff in the Pharmacy Student Services Office to stay apprised of current program requirements in effect.

**Doctor of Pharmacy**

**Doctor of Pharmacy Program**

A pharmacist is a medication expert whose obligation is to deliver pharmaceutical care. Pharmaceutical care is "the responsible provision of drug therapy for the purpose of achieving a definite outcome that improves a patient’s quality of life" (Hepler and Strand). A pharmacist's functions include but are not limited to:

- Identifying, preventing and/or resolving drug-related problems.
- Preventing disease and promoting good health practices through rational drug therapy.
- Providing drug information to the public.
- Educating other health care professionals about appropriate drug therapies.
- Collaborating with other health care professionals to improve health outcomes, especially as they relate to the appropriate use of medications.
- Ensuring that medications are delivered to the patient in a safe manner.

Many practice areas are covered by these responsibilities. The curriculum is designed to develop the competencies of graduates, allowing them to assume these responsibilities as well as the all of the current curricular outcomes expected of Doctor of Pharmacy graduates detailed on the School of Pharmacy Current Students website http://pharmacy.umkc.edu/current-students.

**Curricular Outcomes Expected of Doctor of Pharmacy Graduates**

Doctor of Pharmacy graduates must possess the basic knowledge, skills, attitudes, and values to practice pharmacy independently at the time of graduation. These Curricular Outcomes expectations are located on the UMKC School of Pharmacy website at http://pharmacy.umkc.edu/current-students/.

**Admission Requirements**

The doctor of pharmacy (Pharm.D.) degree provides minimum and advanced level competencies necessary for the graduate to assume a pharmacist's professional responsibilities and qualify for national and state licensure examinations. The program of study emphasizes clinical sciences and
training experiences. The training of doctor of pharmacy students concentrates on rational drug therapy decision-making within the inter-professional health care team.

**Doctor of Pharmacy Minimum Course Requirements**

A minimum of 56 credit hours of college level coursework, including the specified pre-professional requirements listed below, must be successfully completed, with a grade of C or higher, prior to admission to the professional pharmacy program of study. In addition, an overall cumulative grade-point average of 2.75, on a 4.0 scale and a science/math grade-point average of 2.5 on a 4.0 scale must be achieved on all college-level work completed through the end of the fall term preceding the year of entry to meet minimum eligibility requirements. Applicants should note that admission is competitive and that meeting the minimum requirements is not a guarantee of admission.

Equivalent, pre-pharmacy courses must be completed at UMKC or any regionally accredited college or university. Applicants should contact the UMKC Pharmacy Student Services Office to insure proper course equivalents have been met. Second year college pre-pharmacy courses, listed below, must be successfully completed within five years prior to admission entry date.
First Year College Pre-Pharmacy Courses / Minimum Semester Hours
General Chemistry I & II with Labs 8.0
*Calculus with Analytical Geometry 4.0
#General Biology I & II 6.0
**Physics with Lab 4.0
English Composition I & II 6.0
Public Speaking 3.0
American History I or II or Introduction to Political Science course covering U.S. Constitution 3.0

~Second Year College Pre-Pharmacy Courses / Minimum Semester Hours
Organic Chemistry I & II with Labs 8.0
Cell Biology 3.0
##Human Anatomy with Lab 4.0
Microbiology with Lab 4.0
Medical Terminology 1.0
~NOTE: Second year college pre-pharmacy courses must be successfully completed within five years prior to admission entry date.
*Calculus courses that are less than 4.0 credit hours or that do not include analytical geometry will not meet the minimum requirement.
#Preparatory or introductory biology courses will not meet the minimum requirement.
**Physics courses must be at least algebra and trigonometry based.
##Successful completion of two semesters of Human Anatomy and Physiology with labs will meet the Human Anatomy requirement.
NOTE: Successful completion of Human Biochemistry I & II within five years prior to admission entry date is encouraged as part of the pre-requisite requirement, but not required.

Pre-pharmacy coursework must total a minimum of 56 credit hours. General CLEP credits will not be used to fulfill the mathematics, biology, physics, or chemistry requirements. Advanced Placement Program scores through the College Board are accepted for some pre-pharmacy courses. Check acceptable scores and courses at http://www.umkc.edu/registrar/transfer-credit/default.asp. Contact an academic advisor in the School of Pharmacy regarding minimum score requirements and course transferability. Official scores from the College Board must be sent to UMKC for evaluation.

Additional information regarding degree program and admission requirements is located on the UMKC School of Pharmacy Prospective Students webpage located at http://pharmacy.umkc.edu/admissions/pharmd/. Applicants with questions regarding admission should contact the

UMKC School of Pharmacy
Student Services Office
2464 Charlotte Street / Kansas City, MO / 64108
(816) 235-1613 / Fax (816) 235-5562
pharmacy@umkc.edu
Application Procedures
Applications for the doctor of pharmacy program are accepted between June 15 through February 1 for consideration for admission to the class entering the following fall. Admission to the Doctor of Pharmacy program is competitive. Applicants who meet the minimum requirements for admission may not be accepted due to space availability restrictions. New students are admitted to the doctor of pharmacy program only in the fall of each year. As part of the process for application to the Doctor of Pharmacy program, all of the application steps and instructions located within the applications must be adhered to carefully and all required documents must be submitted no later than the February 1st deadline, unless otherwise stated.

1. Applicants must complete and submit the PharmCAS application with all supporting and required documentation and fee. The PharmCAS application is located at http://www.pharmcas.org/. Official transcripts(s) from each college and/or university attended showing all coursework attempted and completed through the Fall term prior to admission entry date must be submitted to PharmCAS. Applicants must submit recent, official scores from the Pharmacy College Admission Test (PCAT) to PharmCAS and an electronic PharmCAS reference from only specified categories as noted on the UMKC Doctor of Pharmacy application.

2. Applicants must complete and submit a UMKC Doctor of Pharmacy Application for Admission, to include supplemental materials and application fee. Pharm.D. Application for Admission is located at http://pharmacy.umkc.edu/admissions/pharmd/apply under Application Instructions.

3. Candidates for admission must meet and adhere to the UMKC School of Pharmacy Minimal Technical Standards for Admission, Matriculation and Graduation as part of the Pharm.D. Application. The Standards are listed on the application, as well as at http://pharmacy.umkc.edu/current-students under "Additional Policies". Students admitted to the Pharm.D. program must continue to meet and adhere to these standards throughout their tenure in the Pharm.D. program.

4. Students whose native language is not English must follow the UMKC English Proficiency Requirements for International Students. The minimum TOEFL score required is 220 computer score or 560 paper version.

5. Selected applicants must complete a formal, structured interview at the School of Pharmacy on the UMKC campus as a factor for admission. Applicants are notified by e-mail before their scheduled interview. Applicants should note that meeting minimum eligibility requirements does not automatically qualify an applicant for an interview. Based on the academic and application credentials of the applicant and the applicant pool, the school will select candidates for an interview. Students who do not qualify for the interview will also receive written notice.
Notification of Acceptance
Students will receive written notification of the school's decision concerning their applications.

Official supplementary college transcripts must be submitted to the Pharmacy Student Services Office upon completion of winter/spring and summer coursework. Final acceptance is contingent on submission and clearance of a criminal background check, good academic and behavioral standing, successful completion (grade of C or higher) of the specified minimum hours of required pre-pharmacy courses and any other coursework completed during the winter/spring and/or summer term prior to admission. Those applicants approved for admission will be required to confirm their acceptance and submit an advance deposit to guarantee their place in the entering class. This deposit is applied to the first term's educational fees and is not refundable.

Curricular Requirements
NOTE: Prior to 2012, Pharm.D. students completed one year of pre-requisite coursework and after entry into the Pharm.D. program were required to successfully earn passing grades in five years of required basic science and pharmacy specific coursework. Beginning with the entering doctor of pharmacy class Fall 2012, the program requires four years of study after successful completion of a minimum two years of specified, pre-requisite coursework. For more information about the organization of coursework and curriculum requirements for the upcoming year, contact the UMKC School of Pharmacy Student Services Office.

The doctor of pharmacy degree program provides broad and general preparation in professional areas of practice with the intent that, on completion, graduates will be able to practice at a level sufficient to perform the established functions of a pharmacist. In addition, the Pharm.D. program prepares the student for advanced levels of professional practice. The major emphasis is on the clinical sciences and drug-related patient care.

This program is designed to provide advanced education and training in clinical pharmacy and drug information with particular emphasis on interprofessional team participation in the delivery of health care. To enable students to concentrate solely on this advanced professional coursework, those entering the doctor of pharmacy program are strongly encouraged to limit their work and/or intern hours during the academic year.

During the early portion of the curriculum, students complete their upper level basic science foundation courses, courses in pharmaceutical sciences, as well as introductory-level pharmacy courses and begin the professional skills development series.

As students progress, they engage in advanced lecture and laboratory coursework in the pharmaceutical and pharmacological sciences, introductory clinical sciences, and finish the professional development series in preparation for the Introductory Pharmacy Practice Experiences. In addition, students select professional electives designed to reinforce the pharmacy career track.
In the later stages of the curriculum Pharm.D. students pursue advanced coursework in the clinical sciences to include pharmaco therapeutics, evidence based medicine, pharmacy law, and pharmacy practice management. During this period, students also finish professional electives. Each student will complete Introductory Pharmacy Practice Experiences (IPPE) during the curriculum. The IPPE’s allow students to take knowledge gained in the didactic curriculum and apply these skills in a variety of practice settings creating a foundation from which to build. The IPPE coursework will be interspersed throughout the didactic curriculum and must be completed before the Advanced Pharmacy Practice Experiences (APPE) occurring in the final year of the program. IPPE opportunities may occur in simulated practice settings, community pharmacies, and health systems.

The final two semesters encompass the APPEs. Drug literature evaluation, instruction, and practice will be an integral part of the APPEs. Each student will be exposed to a core number of required and elective APPEs.

Doctor of Pharmacy APPEs are a series of required and elective experiences designed to complete the student’s education through supervised participation in pharmacy practice in a variety of settings. Candidates are expected to learn by assuming the pharmaceutical care responsibilities of a pharmacist under the direct supervision of a faculty preceptor. Experiences will include direct interaction with diverse patient populations in a variety of practice settings and involve collaboration with other health care professionals. The emphasis of the candidate’s activities will be the management of pharmacotherapy in patients at the assigned practice site. Candidates will also be engaged in ongoing drug utilization, patient and healthcare provider education programs and other pertinent patient care and clinical research activities involved in the provision of patient care. Clinical responsibilities are expected during all pharmacy practice experiences however, there are experiences in which the primary focus may be different. In these, the emphasis may be on the organization, technical and administrative aspects of providing pharmaceutical care.

IPPE and APPE prerequisites include satisfactory completion of all degree requirements prior to the respective term of the professional curriculum that these experiences take place. Candidates must also complete and submit all required documentation for the Office of Pharmacy Experiential Programs as they are notified. All immunizations and specified required documents must be on file with the Office of Experiential Programs before IPPEs and APPEs begin and must remain current through the last experiential rotation. Students enrolled in pharmacy practice experiences may not enroll in didactic courses outside of the required Pharm.D. curriculum without prior approval of the Director of Experiential Learning.

Because pharmacy is a profession undergoing rapid change, the curriculum is subject to continual review and modification. As society's needs for specific types of pharmaceutical service change, the curriculum will change as well. To assure the best pharmacy education for its students, the School of Pharmacy reserves the right of making judicious changes and improvements in course sequence, course content, or other program requirements at any time that must be completed and adhered to in order to meet graduation degree requirements.
Pharm.D. Graduation Requirements
To graduate, Pharm.D. candidates that entered the program prior to Fall 2012 must meet the following course requirements in addition to the 31 credit hour prerequisite requirements:

Semester One
PHARM 7101 Professional Skills I: The Profession of Pharmacy 2
PHARM 7125 Medical Terminology (a) 1
PHARM 7151 Introduction to Pharmacy Law 1
LS-ANATO 119 Human Anatomy 3
LS-ANATO 119L Human Anatomy Lab 1
CHEM 321 Organic Chemistry I 3
CHEM 321L Organic Chemistry I Lab 1
BIOLOGY 202 Cell Biology 3
COMM-ST 110 Fund. of Eff. Speaking and Listening 3

Total 18 Semester Hours

Semester Two
PHARM 7110 Professional Skills II: Pharmacy Calculations 2
PHARM 7125 Medical Terminology (a) 1
PHARM 7233 U.S. Health Care System 3
CHEM 322R Organic Chemistry II 3
CHEM 322L Organic Chemistry II Lab 1
LS-MCRB 121 Microbiology 3
LS-MCRB 121L Microbiology Lab 1
Course covering the U.S. Constitution 3
HISTORY 101 American History to 1877,
HISTORY 102 American History Since 1877 or
POL-SCI 210 American Government

Total 16 Semester Hours

(a) PHARM 7125 must be successfully completed during either the fall or spring semester.

Semester Three
PHARM 7202 Pharmaceutics I 4
PHARM 7341 Medicinal Chemistry I 3
LS-BIOC 365 Human Biochemistry I 3
LS-PHYS 399 Pharmacy Physiology I 3

Total 13 Semester Hours
**Semester Four**  
PHARM 7203 Pharmaceutics II 3  
PHARM 7344 Medicinal Chemistry II 3  
PHARM 7414 Professional Skills Development III: Patient-Centered Communication and Ethical Practice 3  
LS-BIOC 366 Human Biochemistry II 3  
LS-PHYS 400 Pharmacy Physiology II 3  

Total 15 Semester Hours  

**Semester Five**  
PHARM 7245 Top 200 Drugs I (b) .5  
PHARM 7307 Advanced Pathophysiology 4  
PHARM 7361 Pharmacology I 4  
PHARM 7325 Professional Skills V: Professional and Patient Communications 3  
PHARM 7465 Economics of Health and Medicine 3  
Professional Electives (c) 2  
PHARM 7434 Professional Skills IV: Pharmacy Preparations and Practice 3  
PHARM 7199 Pharmacy Grand Rounds (*) .25  

Total(a)19.75 Semester Hours  

(*)Pharmacy Grand Rounds is a continuous course completed over two semesters worth .25 credit hours. If successfully completed, students will receive an incomplete at the end of the fall semester which is converted to a grade at the end of the Spring semester upon successful completion. Re-enrollment through Pathway during the Spring semester is not required.  

**Semester Six**  
PHARM 7245 Top 200 Drugs I (b).5  
PHARM 7303 Pharmacokinetics & Biopharmaceutics 4  
Professional Elective (c) 2  
PHARM 7362 Pharmacology II 5  
PHARM 7405 Pharmacotherapy I 3  
PHARM 7463 Toxicology 2  
PHARM 7334 Pharmacy Based Immunization Delivery 2  
PHARM 7279 Aseptic Technique and Sterile Product Preparation .5  
Total(a)19  

(b) PHARM 7245 must be successfully completed during either the fall or spring semester.  

**Summer Semester**  
PHARM 7378 Introduction to Community Pharmacy Practice 2  
PHARM 7379 Introduction to Health-Systems Pharmacy Practice 2
Semester Seven
PHARM 7389 Advances in Drug Therapy 2
PHARM 7345 Top 200 Drugs II(d).5
PHARM 7406P General Medicine I(e) 4
PHARM 7420 Health Assessment & Pharmacotherapy II 7
PHARM 7451 Pharmacy Law 2
Professional Elective(s)(c) 4
PHARM 7199 Pharmacy Grand Rounds (*) .25
Total(d)19.75 Semester Hours

Semester Eight
PHARM 7326 Evidence Based Medicine 5
PHARM 7345 Top 200 Drugs II(d).5
PHARM 7485P Health Assessment & Pharmacotherapy III 7
PHARM 7466 Pharmacy Practice Management 3
Professional Elective (c) 2

Total(d)17.5 Semester Hours

(c) A minimum of 10 credit hours of professional elective coursework must be completed while enrolled in the School of Pharmacy. No more than five credit hours of the 10 hours can come from courses outside the School of Pharmacy. Coursework completed before entry in the professional program will not transfer as professional elective credit. General and professional elective courses cannot be double counted.
The following is a partial list of courses approved to satisfy professional electives. A current list of approved professional electives is available on the School of Pharmacy home page at http://pharmacy.umkc.edu/ under the Current Students section.

- Principles of Nutritional Support
- Nuclear Pharmacy and Medicine
- Hospital Pharmacy
- Investigative Toxicology
- Zoonotic Illnesses
- The Pharmacists Role in Global Health
- Islam and Modern Practice of Medicine and Pharmacy
- Academic Service Learning
- Pediatric Pharmacotherapy
- Comprehensive Diabetes Management
- Career Planning
- Pharmacy in the 21st Century - Technology for Improved Patient Care
- Introduction to Dietary Supplement Therapeutics
- Oncology and Hematology Pharmacotherapy
- Concepts & Approaches of Epidemiology & Statistics in Research
- Pharmacy Seminar
- Directed Individual Study

(d) PHARM 7345 must be successfully completed during either the fall or spring semester.
(e) Students enroll in General Medicine I during the fall semester for 4.0 credit hours. Half of the General Medicine I course is completed during the fall and the remainder of the course during the spring semester. Spring re-enrollment is not required.

**Semester Nine**
Advanced Pharmacy Practice Experiential Rotations Hours vary
PHARM 7199 Pharmacy Grand Rounds (*) .25

**Semester Ten**
Advanced Pharmacy Practice Experiential Rotations Hours vary
Refer to the School of Pharmacy Office of Experiential Programs for Introductory and Advanced Pharmacy Practice Experiential course requirements and policies.

**Graduation Requirements**
To graduate, students must successfully complete all credit and non-credit requirements as listed. The curriculum includes a minimum of 200 hours (including the 31-hour pre-professional coursework requirement) and all non-credit requirements in effect at the time of completion. Prior to graduation, students also must demonstrate proficiency in English through completion of the Written English Proficiency Test. Within the 200 hours, the following minimums must be met:

- Mathematics/Basic Science coursework 53 hours
- Pharmacy Didactic coursework 81 hours
- Professional Electives 10 hours
- IPPE and APPE Experiential Learning 44 hours

Humanities and social science course requirements (including pre-pharmacy coursework):
- English Composition 6 hours
- Fundamentals of Effective Speaking & Listening 3 hours
- U.S. Constitution course 3 hours
2 - 4 Doctor of Pharmacy Curriculum Academic Year 2012-forward
Approved 12/1/2010; Revised 11/2011

<table>
<thead>
<tr>
<th>Pharm.D. Admission Prerequisites</th>
<th>Pre-Pharmacy</th>
<th>Pre-Pharmacy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHEM 211 / CHEM 211L</strong> General Chemistry I w/lab</td>
<td>5.0</td>
<td><strong>CHEM 212 / CHEM 212L</strong> General Chemistry II w/lab</td>
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<tr>
<td><strong>MATH 210</strong> Calculus I</td>
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<td><strong>PHYSICS 210</strong> General Physics w/lab</td>
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<tr>
<td><strong>BIOLOGY 108</strong> General Biology I (Botany)</td>
<td>3.0</td>
<td><strong>BIOLOGY 109</strong> General Biology II (Zoology)</td>
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<td><strong>ENGLISH 110</strong> English I: Intro to Academic Prose</td>
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<td><strong>ENGLISH 225</strong> English II: Intermediate Academic Prose</td>
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<tr>
<td>Estimated Hours</td>
<td><strong>15.0</strong></td>
<td>Estimated Hours</td>
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<table>
<thead>
<tr>
<th>Pre-Pharmacy</th>
<th>Pre-Pharmacy</th>
</tr>
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<tbody>
<tr>
<td><strong>LS-ANATO 118 / 118L</strong> Human Anatomy w/lab*</td>
<td>5.0</td>
</tr>
<tr>
<td><strong>CHEM 321 / CHEM 321L</strong> Organic Chemistry I w/lab*</td>
<td>4.0</td>
</tr>
<tr>
<td><strong>BIOLOGY 202</strong> Cell Biology</td>
<td>3.0</td>
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<tr>
<td><strong>COMM-ST 110</strong> Fundamentals of Effective Speaking &amp; Listening</td>
<td>3.0</td>
</tr>
<tr>
<td>Estimated Hours</td>
<td><strong>15.0</strong></td>
</tr>
</tbody>
</table>

Note: It is not required to complete prerequisites in only two years. Students may take longer if they feel it can improve their GPA.

*Marked Science courses must be completed within five years of admission into the Pharm.D. program.
## Pharm.D. Curriculum

<table>
<thead>
<tr>
<th>Pharmacy Semester 1 (Fall)</th>
<th>Pharmacy Semester 2 (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHARM 7341 Medicinal Chemistry I</td>
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</tr>
<tr>
<td>LS-PHYS 399 Pharmacy Physiology I</td>
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</tr>
<tr>
<td>LS-BIOC 365 Human Biochemistry I</td>
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<tr>
<td>PHARM 7101 Professional Skills Development I: Profession of Pharmacy</td>
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<tr>
<td>PHARM 7110 Professional Skills Development II: Pharmacy Calculations</td>
<td>2.0</td>
</tr>
<tr>
<td>PHARM 7151 Introduction to Pharmacy Law</td>
<td>1.0</td>
</tr>
<tr>
<td>*PHARM 7199 Pharmacy Grand Rounds</td>
<td>.25</td>
</tr>
<tr>
<td>Maximum Hours</td>
<td>14.25</td>
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</table>

<table>
<thead>
<tr>
<th>Pharmacy Semester 3 (Fall)</th>
<th>Pharmacy Semester 4 (Spring)</th>
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<tbody>
<tr>
<td>PHARM 7361 Pharmacology I</td>
<td>4.0</td>
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<tr>
<td>PHARM 7307 Advanced Pathophysiology</td>
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<tr>
<td>PHARM 7465 Health Economics and Medicine</td>
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<tr>
<td>PHARM 7325 Professional Skills IV; Professional &amp; Patient Communication</td>
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<tr>
<td>PHARM 7203 Pharmaceutics II</td>
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<tr>
<td>PHARM 7279 IPPE: Aseptic Technique &amp; Sterile Product Preparation</td>
<td>.5</td>
</tr>
<tr>
<td>*PHARM 7199 Pharmacy Grand Rounds</td>
<td>.25</td>
</tr>
<tr>
<td>Maximum Hours</td>
<td>16.75</td>
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</table>

<table>
<thead>
<tr>
<th>Pharmacy Semester 4a (Summer)</th>
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</thead>
<tbody>
<tr>
<td>PHARM 7378 IPPE: Introduction to Community Pharmacy Practice</td>
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</tr>
<tr>
<td>PHARM 7379 IPPE: Introduction to Health Systems Pharmacy Practice</td>
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</tr>
<tr>
<td>PHARM 7245 &amp; PHAR 7345 Top 200 Drugs I &amp; II</td>
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</tr>
<tr>
<td>PHARM 7233 U.S. Health Care System and Marketing</td>
<td>3.0</td>
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<tr>
<td>PHARM 7451 Pharmacy Law</td>
<td>2.0</td>
</tr>
<tr>
<td>PHARM 7334 Pharmacy Based Immunization Delivery</td>
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<tr>
<td>Maximum Hours</td>
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<tr>
<td>Pharmacy Semester 5 (Fall)</td>
<td>Pharmacy Semester 6 (Spring)</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>PHARM 7420 Health Assessment &amp; Pharmacotherapy II 7.0</td>
<td>PHARM 7485P Health Assessment &amp; Pharmacotherapy III 7.0</td>
</tr>
<tr>
<td>PHARM 7389 Advances in Drug Therapy 2.0</td>
<td>PHARM 7326 Evidence Based Medicine 5.0</td>
</tr>
<tr>
<td>PHARM 7406P General Medicine I 4.0</td>
<td>PHARM 7466 Pharmacy Practice Management 3.0</td>
</tr>
<tr>
<td>PHARM 7199 Pharmacy Grand Rounds .25</td>
<td>Professional Elective 2 2.0</td>
</tr>
<tr>
<td>Professional Electives 2 4.0</td>
<td>Maximum Hours 17.0</td>
</tr>
<tr>
<td>Maximum Hours 19.25</td>
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</table>

**Pharmacy Semester 6a (Summer)**

**Advanced Pharmacy Practice Experiences**

<table>
<thead>
<tr>
<th>Pharmacy Semester 7 (Fall)</th>
<th>Pharmacy Semester 8 (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Pharmacy Practice Experiences Hours Vary</td>
<td>Advanced Pharmacy Practice Experiences Hours Vary</td>
</tr>
<tr>
<td>PHARM 7199 Pharmacy Grand Rounds .25</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

- Pharmacy 7199 Pharmacy Grand Rounds is a continuous course completed over two semesters worth .25 credit hours. If successfully completed, students will receive an incomplete at the end of the Fall semesters which is converted into a Credit grade at the end of the Spring semesters upon successful completion of course requirements. Re-enrollment in the course during the Spring semesters is not required.
- Students must provide all required documentation as listed on the Experiential Programs website at [http://pharmacy.umkc.edu/academic-divisions/experiential-programs](http://pharmacy.umkc.edu/academic-divisions/experiential-programs) no later than the beginning of any Introductory Pharmacy Practice Experience [IPPE], unless stated otherwise, and these credentials and requirements must remain current through the end of the last Advanced Pharmacy Practice Experience [APPE].
- Eight credit hours of professional elective course work must be successfully completed prior to enrollment in Advanced Pharmacy Practice experiences. Visit [http://pharmacy.umkc.edu/current-students/](http://pharmacy.umkc.edu/current-students/) for a list of approved professional elective offerings.

Students must refer and adhere to the Policies regarding IPPE and APPE completion and enrollment on the Office of Experiential Programs (OEP) website at [http://pharmacy.umkc.edu/academic-divisions/experiential-programs/](http://pharmacy.umkc.edu/academic-divisions/experiential-programs/)

- Pharmacy 7406P General Medicine I is a continuous introductory pharmacy practice experience completed over Semester 5 and 6 worth 4 credit hours. If successfully completed, students will receive an incomplete at the end of Semester 5 which is converted to a grade at the end of Semester 6 upon successful completion. Re-enrollment during Semester 6 in Pharmacy 7406P is not required.
• Students must complete 36 credit hours of Advanced Pharmacy Practice Experiences [APPE] over Semesters 6a-8. APPE prerequisites include satisfactory completion of all credit and non-credit degree and course requirements prior to Semester 6a of the professional curriculum in addition to meeting the policies as stated on the Experiential Programs web site at http://pharmacy.umkc.edu/academic-divisions/experiential-programs/.

• Because pharmacy is a profession undergoing rapid change, the curriculum is subject to continual review and modification. As society's needs for specific types of pharmaceutical service change, the curriculum will change as well. To assure the best pharmacy education for its students, the School of Pharmacy reserve the right of making judicious changes and improvement in course sequence, course content, or other program requirements at any time that must be completed and adhered to in order to meet graduation requirements.

Prospective Applicants are encouraged to:
• Visit http://pharmacy.umkc.edu to see equivalency sheets for schools in Missouri and Kansas to see how prerequisites will transfer to UMKC.
• Visit http://www.umkc.edu/registrar/transfer-credit/default.asp to see how UMKC views AP & IB course work.
Pre-Medicine/Pre-Health

Description
Choosing an Undergraduate Major
Pre-Medicine/Dentistry
Advising
College of Arts and Sciences Track
School of Biological Sciences Track
Honors Program
Student Organizations

Description
Among the fastest-growing career areas are the health-related professions and this trend is likely to continue in the 21st century, according to the U.S. Department of Labor. These employment opportunities require specialized training and one to four years of college-level studies in the appropriate pre-professional curricula. The pre-medicine/pre-health tracks are designed to help prepare students for future careers in the health arena and guide them through the process of applying to the various professional programs in health care.

The pre-medicine/pre-health tracks designed by the College of Arts and Sciences and the School of Biological Sciences assist students following a traditional path toward ultimately earning a professional degree in a medical or health care field. Most students first earn a bachelor's degree, followed by training in a professional program such as a four-year medical or dental school. These tracks are distinctly different from the unique six-year programs offered by UMKC in medicine and pharmacy described elsewhere in this catalog. For information about dentistry please see the UMKC Dental Program in the Graduate Catalog.

Some of the pre-professional programs in health care include:
Pre-Dental Hygiene
Pre-Dentistry
Pre-Health, which includes advising for careers in:
- Chiropractic
- Clinical Perfusion
- Health Administration
- Health Information Management
- Nutrition/Dietetics
- Occupational Therapy
- Optometry
- Physical Therapy
- Podiatry
- Respiratory Therapy
- Veterinary Medicine
Pre-Medicine (allopathic and osteopathic)
Pre-Nursing
Pre-Pharmacy
Medical Technology (see section under School of Biological Sciences)

**Choosing an Undergraduate Major**
Following the pre-medicine or pre-health track means taking specific courses that professional programs require for admission, but "pre-medicine" or "pre-health" are not actual degrees. Students need to choose a major field of study to combine with one of these tracks. Students can choose to follow these tracks through the College of Arts and Sciences or the School of Biological Sciences, depending on the major selected. Professional schools accept individuals from a variety of educational backgrounds and majors. When choosing a major, it is wise for students to consider their personal interests and strengths as well as possible alternative career goals.

The School of Biological Sciences offers degrees in biology, including a bachelor of science in biology with an emphasis in the cellular and molecular basis of health and disease for pre-medicine students, and a pre-dentistry concentration for pre-dentistry students. Undergraduate students in the biological sciences also have the opportunity to work with faculty mentors in life sciences research.

The College of Arts and Sciences offers degree choices and medically related undergraduate research in areas spanning the sciences, social sciences and humanities. Popular majors to combine with pre-medicine and pre-health include psychology, chemistry, communication studies, physics, English, Spanish, and philosophy. Many other combinations in the 18 academic departments are possible, and advisers in the tracks will help students apply their interests to design the right combination.

**Pre-Medicine/Dentistry**
The purpose of the pre-medicine/dentistry curriculum is to prepare the student for application to medical/dental schools. Students may complete the pre-medicine/dentistry curriculum within any major.

The courses recommended in the pre-medicine/dentistry curriculum do not constitute an academic major but are the courses required for entrance into the majority of medical/dental schools in the United States and Canada. They also provide students with the information needed to obtain top scores on the Medical College Admission Test (MCAT) and Dental Admissions Test (DAT), which are required for entrance into medical and dental schools.

In addition to gaining a strong foundation in the sciences, pre-medicine/dentistry students also will receive support services to help them best prepare for application to medical or dental school.

For students considering other health professions or seeking admission to specific programs with additional prerequisite courses, the curriculum may be tailored to meet these requirements.
Medical/Dental School Admission Requirements

A. Two semesters (eight semester hours) of general biology with corresponding laboratories:
- BIOLOGY 108 General Biology I
- BIOLOGY 108L General Biology I Lab
- BIOLOGY 109 General Biology II
- BIOLOGY 109L General Biology II Lab

B. Two semesters (10 semester hours) of general chemistry with corresponding laboratories:
- CHEM 211 General Chemistry I
- CHEM 211L General Chemistry I Lab
- CHEM 212R General Chemistry II
- CHEM 212LR General Chemistry II Lab

C. Two semesters (eight semester hours) of organic chemistry with corresponding laboratories:
- CHEM 321 Organic Chemistry I
- CHEM 321L Organic Chemistry I Lab
- CHEM 322R Organic Chemistry II
- CHEM 322L Organic Chemistry II Lab

D. Two semesters (eight semester hours) of physics including laboratories:
- PHYSICS 210 General Physics I
- PHYSICS 220 General Physics II

E. Two semesters (six semester hours) of English composition:
- ENGLISH 110 English I: Introduction To Academic Prose
- ENGLISH 225 English II: Intermediate Academic Prose

In addition to the admission requirements listed above, most medical and dental schools recommend more advanced courses in biology, such as cell biology, genetics and biochemistry, and/or additional chemistry courses. Students should also take upper-level courses that demonstrate the requisite intellectual discipline and analytical and problem solving skills necessary to succeed in medical or dental school. Students are strongly encouraged to balance their work in the sciences with courses in communication studies, computer science, English literature, philosophy, psychology and sociology. A broad understanding of health care and medicine is also expected and work and/or volunteer experiences, including physician shadowing, in settings such as health care agencies, hospitals and physician offices is recommended.

UMKC School of Medicine MD Completion program

While the UMKC School of Medicine is primarily a combined-degree (BA/MD) program, it annually accepts a limited number of MD-only students who have completed their pre-medical studies and baccalaureate degrees. Students completing their pre-medical studies at UMKC and applying to the School of Medicine have the advantage of taking courses with medical students, interacting with faculty who also teach at the medical school and securing recommendations from individuals familiar with the School of Medicine’s curriculum and faculty. For more information about this program or to request an application, contact the Admissions Office at the School of Medicine.
UMKC School of Dentistry Reserved Admission Program
The Reserved Admission Program for the Doctor of Dental Surgery (DDS) degree at the UMKC School of Dentistry enables highly motivated, ambitious, talented students to pursue their dream of becoming a dentist. Because admission to the Reserved Admission Program is very competitive, qualified reserved admission program students will have a reserved seat in a future UMKC School of Dentistry DDS Program class of their choosing, and they will not have to compete further for admission into the UMKC dental school. Entry into the program is available to students from Missouri and Kansas.

To be eligible to apply for Reserved Admission you must have completed a minimum of but not more than four semesters of college credit while being continuously enrolled in full-time course loads (a minimum of 15-18 credit hours per semester). Your science grade point average must be at least 3.60 in a degree-seeking program including prerequisite courses. For more information about this program or to request an application, contact the Office of Student Programs at the School of Dentistry, 816-235-2080.

Advising
Experienced advisers in the College of Arts and Sciences and the School of Biological Sciences are knowledgeable about the professional school admission processes.

Advisers guide students in:
- Choice of majors
- Choice of courses
- Volunteer and shadowing opportunities
- Undergraduate research options
- Other health care professions
- Career alternatives

Advisers also give students invaluable help with:
- The professional school application process
- Preparation for professional school admission tests (MCAT, DAT, OAT, VCAT, etc.)
- Letters of recommendation
- Writing the personal statement
- Successful interview strategies
Students following the pre-medicine/pre-health track can enhance their preparation for health care careers through any major in the College of Arts and Sciences. While the relationship to majors such as chemistry or physics is clear, students may be surprised to discover how their interests in other majors within the College of Arts and Sciences will strengthen their abilities as future health care providers. For example:

Students combining a major in psychology with the pre-medical/pre-health track will learn how psychology influences health and wellness, the prevention of disease and the healing process. Students majoring in communication studies will learn the critical importance of communication in health care, from the doctor-patient relationship to the interpersonal communication between members of a health care team to the power and politics of mass media.

Philosophy majors will apply bioethical principles to "real world" dilemmas such as physician-assisted suicide.

Pre-medical and pre-health students can easily combine any major within the College of Arts and Sciences with the prerequisites for medical, dental or other health professions schools. The College also offers:

*The pre-medical/pre-dental curriculum* which may be combined with any major within the College of Arts and Sciences. This allows students the opportunity to complete the necessary prerequisite courses for admission to medical/dental schools in the United States and Canada.

*A freshman seminar for pre-health/pre-medicine students.* Guest speakers discuss getting into medical school, and students investigate medical case studies and explore important issues such as "Is health care a right or a privilege?"

*Interdisciplinary courses that examine the complicated nature of health care.* Topics include the doctor-patient relationship, other aspects of health communication, health promotion and prevention and controversial issues in bioethics.

*Medically related research projects* in such areas as clinical health psychology, chemistry, and physics. Current topics include disease prevention, psychological and communication barriers to adherence, and factors linking obesity, smoking, alcohol abuse, diet and exercise with cancer, cardiovascular disease and HIV/AIDS. Research partners include the Mid-America Heart...
Institute, Saint Luke's Hospital, UMKC Schools of Dentistry and Medicine and the Kansas City Free Health Clinic.

**Dental-related research projects** which investigate topics such as pain management, disease prevention, psychological barriers in the healing process and the use of chemistry and physics to identify and construct new polymers for use as posterior restorations.

**The Gerontology Certificate** allows students to explore relevant medical and social issues of the new millenium as people live longer, our population ages, and "care" becomes as important as "cure."

**The Healing and Humanities Minor.** Faculty from the College of Arts and Sciences offer courses that enhance an student's ability to understand the complicated world of health care and the relationship of healthcare with the humanities and social sciences. Students can combine the healing and humanities minor with any major in the College of Arts and Sciences or the School of Biological Sciences. Through courses for the healing and humanities minor, students may strengthen their preparation for health careers by improving their communication skills, their appreciation of diversity and the arts, their understanding of bioethical dilemmas and their knowledge of the values, economics, and politics of health care. See the Healing and Humanities Minor for more information.
College of Biological Sciences Track
Lynda S. Plamann
(816) 235-1827
plamann@umkc.edu

Tammy Welchert
(816) 235-1385
welchert@umkc.edu

Chris Jordan
(816) 235-2574
jordan@umkc.edu

Students interested in the scientific aspects of medicine or dentistry may find the School of Biological Sciences to be the right place for them. A major in biology incorporates courses in biology, chemistry and physics with a broad foundation in the social sciences and humanities. By meeting the degree requirements for the bachelor of science in biology with the cellular and molecular basis of health and disease emphasis, students will automatically fulfill all of the prerequisites and the upper-level biology courses which are highly recommended by most medical schools. The bachelor of science in biology with the pre-dentistry concentration allows students to complete all of the prerequisites and upper-level biology courses strongly suggested by most dental schools. More information about this can be found in the School of Biological Sciences section of this catalog.

Investigate the molecular basis of disease. Courses such as genetics, cell biology, biochemistry and molecular biology examine the essential elements of modern biological sciences. Electives like neurobiology, endocrinology, immunology and virology emphasize experimental approaches that lay the foundation for the treatment and prevention of disease.

Perform hands-on experiments with cells and tissues in facilities equipped with cutting-edge technology. Laboratory courses such as microbiology and histology bring textbook topics to life and allow students to learn the basics of research.

Discover and create new knowledge. In cooperation with faculty, students apply powerful techniques like automated DNA sequencing, robotic genomic analysis and electron and confocal microscopy, to current biomedical problems. Students electing to do their own research may open many doors for their future.

Pursue personal interests in biology. From the study of plants to the study of insects, students can explore practical applications like drug discovery and disease control by selecting from a variety of courses. Field trips and outings allow students to observe biological principles in action.

Honors Program
The College of Arts and Sciences and the School of Biological Sciences both offer Honors Programs for students with exemplary academic performance. The College of Arts and Sciences’ program uses an interdisciplinary approach that encompasses studies in the sciences, humanities and social sciences, and engages students in a weekly Honors Colloquium and honors-designated courses.
The School of Biological Sciences' program combines a requirement for high levels of academic achievement with an undergraduate experimental research project and enrichment activities like study trips and seminar attendance.

**Student Organizations**

There are more than 200 active student organizations (including Greek) at UMKC that promote student leadership, volunteerism, community service and socialization. Some of the popular organizations among pre-health students include:

**Pre-Medical Society**

This is a university-wide student organization that provides various extracurricular opportunities for students to learn about the health care professions and to network with other like-minded students. Previous meetings have included discussions on Bioethics, HMOs, organ donation, complementary medicine, genetics and gene therapy, cloning, HIV/AIDS and taking patient histories. The society regularly hosts recruiters from medical schools as well as representatives from volunteer opportunities in the community.

**Pre-Dental Society**

This is a university-wide student organization that provides various extracurricular opportunities for students to learn about dental-related professions and to network with other like-minded students. Previous meetings have focused on the application process for dental schools, preparation for the DAT, and volunteer opportunities in the community. Guest speakers include current dental students, practicing dentists, and dental school admission representatives.

**Pre-Dental Hygiene Society**

This newly formed student organizations allows pre-dental hygiene students to network together and learn about the profession of dental hygiene. Meeting topics include tours of the UMKC School of Dentistry and how to prepare for entry into dental hygiene programs. Guest speakers include dental hygiene faculty, students, and current practitioners.

**Biological Sciences Student Government (BSSG)**

The BSSG plans informational and social activities for students. Past activities include guest speakers from the Kansas City Police Department Forensics Unit, Children's Mercy Hospital and the Missouri Department of Natural Resources, picnics and group ice-skating. Pre-medical students can participate in the School of Biological Sciences' annual hosting of distinguished biomedical scientists, including Nobel Prize winners and National Academy of Sciences members, addressing frontier issues in biomedicine.

**Arts and Sciences Student Council**

The council aims to provide an interdisciplinary body in which Arts and Sciences students can provide input on decisions and policies of the College. The council works to enhance student-faculty interaction and communication, allocate its authorized budget and insure that Arts and Sciences students' needs, desires and attitudes are correctly represented to the administration.
Alpha Eta Chapter of Alpha Phi Omega
This organization carries out service programs aimed at serving the chapter, campus, community and nation with emphasis on serving primarily the UMKC campus and the Kansas City area.

Institute for Leadership and Service
This university-wide organization focuses their mission on meeting community needs, improving participant's lives, strengthening communities, and building partnerships. Through ILS activities, participants hone their leadership skills and community service experiences to complement their dedication to service in the health professions. Since health professional schools value these experiences, pre-health students can benefit from being involved with the ILS program.
Faculty

Faculty of the University of Missouri-Kansas City

College of Arts and Sciences
  • Architecture, Urban Planning and Design
  • Art and Art History
  • Chemistry
  • Communications Studies
  • Criminal Justice and Criminology
  • Economics
  • English Language and Literature
  • Foreign Languages and Literature
  • Geosciences
  • History
  • Mathematics
  • Philosophy
  • Physics
  • Political Science
  • Psychology
  • Social Work
  • Sociology
  • Theatre

School of Biological Sciences

Henry W. Bloch School of Management

School of Computing and Engineering

School of Dentistry

School of Education

School of Law

Academic Librarians

School of Medicine

Conservatory of Music and Dance

School of Nursing

School of Pharmacy
Architecture, Urban Planning and Design

@ Associate or Adjunct Graduate Faculty  
* Members of UMKC Graduate Faculty  
# Members of UMKC Doctoral Faculty  
+ Located at UM-St. Louis campus

Architecture, Urban Planning and Design
Michael Frisch ; associate professor of architecture, urban planning and design; M. City Planning (Massachusetts Institute of Technology); Ph.D. (Rutgers University); A.I.C.P.
**Sungyop Kim ; assistant professor of architecture, urban planning and design; M. Urban and Regional Planning (University of Hawaii); Ph.D. (University of Washington).
Theodore H. Seligson ; visiting professor of architecture, urban planning and design; B.Arch. (Washington University); F.A.I.A.
Joy D. Swallow ; chair, department of architecture, urban planning and design, and associate professor of architecture; B.Arch. (Kansas State University); M.Arch. (University of Pennsylvania); F.A.I.A.
**Jacob A. Wagner ; assistant professor of architecture, urban planning and design; B.A.,M.S. (University of Oregon); Ph.D. (University of New Orleans).

Art and Art History  

@ Associate or Adjunct Graduate Faculty  
* Members of UMKC Graduate Faculty  
# Members of UMKC Doctoral Faculty  
+ Located at UM-St. Louis campus

Art and Art History
*Richard W. Allman ; assistant professor of art; B.F.A. (Massachusetts College of Art); M.F.A. (Rhode Island School of Design).
*Barry Anderson ; associate professor of art; B.F.A. (University of Texas at Austin); M.F.A. (Indiana University - Bloomington).
Eric J. Bransby; professor emeritus of art; B.A., M.A. (Colorado College); M.F.A. (Yale University).
@**Robert Cohon; associate research professor of art history; B.A. (Columbia University); M.A., Ph.D. (New York University).
**Frances Connelly ; professor of art history; B.A. (Wake Forest University); M.A. (University of Pittsburgh); M.F.A. (University of North Carolina at Greensboro); Ph.D. (University of Pittsburgh).
William G. Crist; professor emeritus of art; B.A. (University of Washington, Seattle); M.F.A. (Cranbrook Academy of Art).
Nancy DeLaurier; instructor emeritus of art; B.S. (Northwestern University).
**Burton L. Dunbar, III ; professor of art history; B.A. (Park College); M.A., Ph.D. (University of Iowa).
George Ehrllich; professor emeritus of art history; B.S., M.F.A., Ph.D. (University of Illinois).
*Geraldine E. Fowle ; associate professor of art history; A.B. (Aquinas College); M.A., Ph.D. (University of Michigan).
Stephen J. Gosnell; associate professor emeritus of art; M.A. (State University of New York).  
*Elijah Gowin; associate professor of art; B.A. (Davidson College); M.F.A. (University of New Mexico).

Leonard I. Koenig; professor emeritus of art; B.A. (Adelphi College); M.A. (University of Iowa); M.F.A. (University of Wisconsin-Madison).

Barbara A. Mueller; professor emeritus of art; B.A. (Maryville College); M.A. (University of Iowa).

Craig A. Subler; professor of art; B.F.A. (Dayton Art Institute); M.A., M.F.A. (University of Iowa).

Joy D. Swallow; associate professor of architecture; B.Arch. (Kansas State University); M.Arch. (University of Pennsylvania).

*Kati Toivanen; chair, department of art and art history, professor art; B.F.A. (Clark University); M.F.A. (School of the Art Institute of Chicago).

*Paul Tosh; associate professor of art; B.F.A. (Middle Tennessee State University); M.F.A. (University of Arizona).

**Maude Wahlman; Dorothy and Dale Thompson/Missouri Endowed Professor in Arts; B.A. (Colorado College); M.A. (Northwestern University); M.Phil., Ph.D. (Yale University).

**Rochelle N. Ziskin; professor of art history; B.A. (University of Illinois-Chicago), M.A. (Harvard University); Ph.D. (Harvard University).

**Rochelle N. Ziskin; professor of art history; B.A. (University of Illinois-Chicago), M.A. (Harvard University); Ph.D. (Harvard University).

**Maude Wahlman; Dorothy and Dale Thompson/Missouri Endowed Professor in Arts; B.A. (Colorado College); M.A. (Northwestern University); M.Phil., Ph.D. (Yale University).

Chemistry

* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Chemistry

Paul M. Barron; assistant teaching professor of chemistry, coordinator of general chemistry laboratories, principal undergraduate advisor and lecturer; Ph.D. (University of Nebraska).

**Keith R. Buszek; professor of chemistry; B.S. (University of California, Irvine); Ph.D. (University of California, Los Angeles).

Xiaobo Chen; assistant professor of chemistry; B.S. (Peking University, China); M.S. (Chinese Academy of Sciences); Ph.D. (Case Western Reserve University).

John W. Connolly; professor emeritus of chemistry; B.S. (Xavier University); Ph.D. (Purdue University).

**Jerry R. Dias; curators' professor of chemistry; B.S. (San Jose State College); Ph.D. (Arizona State University).

Andrea Drew-Gouvev; assistant teaching professor of chemistry, coordinator of organic laboratories, principal undergraduate advisor and lecturer; B.S. Ph.D. (University of South Carolina).

Henry A. Droll; professor emeritus of chemistry; B.S., M.S. (George Washington University); Ph.D. (University of Pennsylvania).

**James R. Durig; curators' professor of chemistry and geosciences; B.A. (Washington and Jefferson College); Ph.D. (Massachusetts Institute of Technology).
Todor K. Gounev; assistant professor of chemistry and program director; B.S., M.S. (University of Sophia, Bulgaria); Ph.D. (University of South Carolina).

Peter Groner; retired associate professor of chemistry and director of laboratories; Diploma, Ph.D. (Swiss Federal Polytechnic Institute).

Eckhard W. Hellmuth; professor emeritus of chemistry; B.S., M.S., Ph.D. (University of Marburg, Germany).

Andrew J. Holder; professor of chemistry; B.S. (Mobile College); Ph.D. (University of Southern Mississippi).

Y. C. Jerry Jean; curators' professor of chemistry and physics; B.S. (Taipei Institute of Technology Taiwan); Ph.D. (Marquette University).

Ekaterina N. Kadnikova; assistant professor of chemistry; diploma in chemistry (Higher Chemical College of the Russian Academy of Sciences); Ph.D. (Iowa State University).

Kathleen V. Kilway; chair and curator's teaching professor of chemistry; B.S. (St. Mary's College); M.S., Ph.D. (University of California-San Diego).

Peter F. Lott; professor emeritus of chemistry; B.S., M.S. (St. Lawrence University); Ph.D. (University of Connecticut).

Layton L. McCoy; professor emeritus of chemistry; B.S., Ph.D. (University of Washington).

Nathan A. Oyler; assistant professor of chemistry; B.S. (University of Arizona); Ph.D. (University of Washington).

Zhonghua Peng; professor of chemistry; B.S. (University of Science and Technology of China); M.S. (Chinese Academy of Sciences); Ph.D. (University of Chicago).

Thomas C. Sandreczki; associate dean of arts and sciences and professor of chemistry; B.A. (Houghton College); M.S., Ph.D. (University of Rochester).

Kenneth S. Schmitz; professor of chemistry; B.A. (Greenville College); Ph.D. (University of Washington-Seattle).

Timothy F. Thomas; professor emeritus of chemistry; A.B. (Oberlin College); Ph.D. (University of Oregon).

J. David Van Horn; associate professor of chemistry; B.A. (Point Loma Nazarene College); Ph.D. (University of Utah).

Charles J. Wurrey; curators' distinguished teaching professor emeritus and James C. Olson professor of chemistry; B.S. (Northern Michigan University); Ph.D. (Massachusetts Institute of Technology).

Communications Studies

@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Communications Studies

Joan E. Aitken; Retired professor emerita of communication studies; B.A. (Michigan State University); M.A., Ed.D. (University of Arkansas).

Gregory D. Black; Retired professor emeritus of communication studies; B.S. (Bowling Green State University); M.A. (California State); Ph.D. (University of Kansas).

Mitchell Brian; assistant visiting professor of communication studies; B.A. (California State University, Northridge); M.A. (University of Missouri-Kansas City).
*Linda M. Collier*; Retired associate professor of communication studies; director of debate; B.A., J.D. (University of Missouri-Kansas City).

Jean Dufresne; lecturer, communication studies; B.A. (Morningside College); M.A. (University of Iowa); Ph.D. (University of Nebraska-Lincoln).

Angela C. Elam; assistant professor of communication studies and radio producer; B.A. (Clemson University); M.F.A. (University of Georgia-Athens).

Lyn Elliot; assistant professor of communication studies; B.A. (Carleton College); M.A., Ph.D. (University of Iowa); M.F.A. (University of Iowa).

*Gregory Gutenko*; associate professor of communication studies; B.A., M.A. (University of Missouri-Kansas City); Ph.D. (University of Missouri-Columbia).

*Caitlin M. Horsmon*; associate professor of communication studies; B.A. (Oberlin College); M.A., M.F.A. (University of Iowa).

Gaylord V. Marr; Retired professor emeritus of communication studies; B.A., M.A. (University of Nebraska).

Jason Martin; assistant professor of communication studies; B.B.A., B.S. (University of Kentucky); M.A. (The Ohio State University); Ph.D. (University of Kentucky).

Judith McCormick; associate teaching professor of communication studies; B.A., M.A. (Texas Tech University); Ph.D. (Kansas State University).

Michael K. McDonald; associate professor of communication studies; B.S., M.A. (University of Missouri-Kansas City), Ph.D. (University of Kansas).

Steven P. Melling; lecturer of communication studies; B.S. (Northwestern Missouri State University); M.A., Ph.D. (University of Kansas).

*Peter Morello*; associate professor of communication studies; B.A. (University of Wisconsin-Madison); M.S. (Columbia University).

Michael Neer; retired, Olsen professor of communication studies; B.A., M.A., Ph.D. (University of Missouri-Columbia).

G. Thomas Poe; associate professor of communication studies; B.A. (Central Methodist College); M.A. (Northwest Missouri State), M.Div. (Emory University), M.A. (University of Missouri-Kansas City); Ph.D. (University of Kansas).

Michael W. Schaefer; lecturer of communication studies; B.A., M.A. (University of Missouri-Kansas City).

Robert B. Unger; professor of communication studies and English; B.A. (University of Missouri-Columbia); M.P.A. (Harvard University).

Ye Wang; assistant professor of communication studies; B.A. (Beijing University of Posts and Telecommunications); M.A. Linguistics (Beijing Foreign Studies University); M.A., Ph.D. Journalism (University of Missouri).

**Criminal Justice and Criminology**

* Associate or Adjunct Graduate Faculty
  * Members of UMKC Graduate Faculty
  # Members of UMKC Doctoral Faculty
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**Criminal Justice and Criminology**

* Cathleen Burnett; professor of sociology/CJC; B.A. (St. Lawrence University); M.S., Ph.D. (Vanderbilt University).
Andrew M. Fox; assistant professor of criminal justice and criminology; B.A. (Aquinas College); M.S., Ph.D. (University of Cincinnati).

**Jessica Hodge;** assistant professor of criminal justice and criminology; B.A. (University of Minnesota); M.S. (Western Oregon University); Ph.D. (University of Delaware).

**Alexander Holsinger;** associate professor of criminal justice and criminology; B.A. (Aquinas College); M.S. (Illinois State University); Ph.D. (University of Cincinnati).

**Kristi Holsinger;** associate professor of criminal justice and criminology; B.A. (Aquinas College); M.S., Ph.D. (University of Cincinnati).

**Toya Z. Like-Haislip;** assistant professor of criminal justice and criminology; B.S., M.A., Ph.D. (University of Missouri-St. Louis).

*Wayne L. Lucas;* professor of criminal justice and criminology; B.S., M.S. (Illinois State University); Ph.D. (Iowa State University).

**Ken Novak;** associate professor of criminal justice and criminology; B.S. (Bowling Green State University); M.S., Ph.D. (University of Cincinnati).

Lori Sexton; assistant professor of criminal justice and criminology; B.S. (Cornell University); M.A. (University of Pennsylvania); Ph.D. (University of California, Irvine).

**Economics**

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

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**Economics**

**W. Robert Brazelton;** professor emeritus of economics; B.A. (Dartmouth College); M.A., Ph.D. (University of Oklahoma).

**William Black;** associate professor of economics and law; Ph.D. (University of California at Irvine).

Doug Bowles; research associate, assistant director, CEI, director, SSC, Ph.D., (University of Missouri-Kansas City)

**Peter J. Eaton;** associate professor of economics; B.A. (University of Santa Clara); Ph.D. (University of Florida).

**Mathew Forstater;** professor of economics; B.A. (Temple University); M.A. (New School for Social Research); Ph.D. (New School for Social Research).

John Henry. Lecturer in Economics, Ph.D. (McGill University)

L. Kenneth Hubbell; professor emeritus of economics and joint professor in the L.P. Cookingham Institute of Public Affairs; B.A., M.A. (Texas Christian University); Ph.D. (University of Nebraska).

**Stephanie A. Kelton;** associate professor of economics; B.A. (California State University-Sacramento); M.Phil. (Cambridge University); Ph.D. (New School for Social Research).

Michael Kelsay. Lecturer, Ph.D. (University of Tennessee).

**Frederic S. Lee;** professor of economics; B.A. (Frostburg State University); M.Phil, Ph.D. (Rutgers University).

**Erik K. Olsen;** associate professor of economics; B.S. (Northeastern University); Ph.D. (University of Massachusetts at Amherst).
Ross Shepherd; professor emeritus of economics; A.B. (Harvard University); M.A., Ph.D. (Syracuse University).

#*James I. Sturgeon; chair, department of economics, and professor of economics; B.A. (Kansas State Teachers College-Emporia); M.A. (University of Missouri-Kansas City); Ph.D. (University of Oklahoma).

#*Linwood Tauheed, assistant professor of economics; Ph.D. (University of Missouri at Kansas City).

#*Karen S. Vorst; professor of economics; B.S. (Bowling Green State University); Ph.D. (Indiana University).

F. Eugene Wagner; professor emeritus of economics; B.A., M.S. (University of Missouri-Kansas City); Ph.D. (Syracuse University).

#*John O. Ward; professor emeritus of economics; B.A., M.A. (University of Toledo); Ph.D. (University of Oklahoma).

#*L. Randall Wray; professor of economics; B.A. (University of the Pacific); M.A. (Washington University); Ph.D. (Washington University).

Ben Young, lecturer, Ph.D. (University of Oklahoma).

English Language and Literature

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

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English Language and Literature

Elpida Anthan; lecturer in English & Classics; B.A., M.A. (University of Kansas).

#*Hadara Bar-Nadav[http://www.umkc.edu/lookup/search.cfm?LastName=bar-nadav; associate professor of English; B.A. (William Paterson College); M.A. (Montclair State University); Ph.D. (University of Nebraska-Lincoln).

#*John C. Barton; associate professor of English; B.A. (University of California-Berkeley); M.A., Ph.D. (University of California-Irvine).

Ralph A. Berets; associate professor emeritus of English; B.A., M.A., Ph.D. (University of Michigan).

#*Virginia Blanton; professor of English; B.A. (Southwestern College); M.A., Ph.D. (Binghamton University).

*Michelle A. Boisseau; professor of English; B.A., M.A. (Ohio University); Ph.D. (University of Houston).

Norma Cantú; professor of English; B.S. (Texas A&I University-Laredo); M.S. (Texas A&I University-Kingsville); Ph.D. (University of Nebraska-Lincoln).

Lorna Condit; lecturer in English; B.A. (Park College); M.A. (Northwest Missouri State University); Ph.D. (University of Missouri-Kansas City).

#*Joan F. Dean; curators' teaching professor of English; A.B. (Canisius College); M.A., Ph.D. (Purdue University).

#*Stephen Dilks; professor of English; B.A. (University of Stirling, Scotland); M.A., Ph.D. (Rutgers University).

Crystal Gorham Doss; lecturer in English; B.A. (William Jewell College); M.A. (University of Kansas); Ph.D. (University at Buffalo).
Laurie Ellinghausen; associate professor of English; B.A. (University of Houston), M.A. (Ohio State University), Ph.D. (University of California-Santa Barbara).

Robert M. Farnsworth; professor emeritus of English; B.A. (University of Michigan); M.S. (University of Connecticut); Ph.D. (Tulane University).

Moira Ferguson; professor emerita of English; B.A. (University of London, Birkbeck College); M.A., Ph.D. (University of Washington, Seattle).

Jennifer Frangos; assistant professor of English; B.A. (Vassar College); M.A. (State University of New York-Buffalo), Ph.D. (State University of New York-Stony Brook).

Jane Greer; associate professor of English; B.A. (Hanover College); M.A., Ph.D. (Ohio State University).

Nicole Higgins; lecturer in English; B.S. (Missouri State University); M.A. (University of Missouri-Kansas City); M.F.A.

Christie Hodgen; associate professor of English; B.A. (University of Virginia, Charlottesville); M.F.A. (Indiana University, Bloomington), Ph.D. (University of Missouri, Columbia).

Sheila Honig; lecturer in English; B.A., M.A. (University of Missouri, Columbia).

Daniel Freeman Jaffe; professor emeritus of English; B.A. (Rutgers University); M.A. (University of Michigan).

Cynthia Jones; lecturer in English & Classics; B.A., M.A., Ph.D. (University of Missouri-Kansas City).

Katie Kline; lecturer in English; B.A. (Western State College, Gunnison, CO); M.A. (University of Missouri-Kansas City).

Daniel Mahala; associate professor of English; B.A. (State University of New York at Binghamton); M.A. (New York University); D.A. (State University of New York at Albany).

James C. McKinley; professor emeritus of English; B.J., M.A., Ph.D. (University of Missouri, Columbia).

Ben Moats; lecturer in English; B.A. (Rockhurst University); M.A. (University of Missouri-Kansas City).

Jennifer Phegley; professor of English and women's studies; B.A. (Southwest Texas State University); M.A., Ph.D. (Ohio State University).

Michael Pritchett; associate professor of English; B.J. (University of Missouri, Columbia); M.F.A (Warren Wilson College).

David Ray; professor emeritus of English; B.A., M.A. (University of Chicago).

James A. Reeds; associate professor emeritus of English and linguistics; B.A., M.A. (University of Iowa); A.M., Ph.D. (University of Michigan).

Andrés Rodríguez; lecturer in English; B.A. (University of Iowa); M.A. (Stanford University); Ph.D. (University of California, Santa Cruz).

Jeffrey A. Rydberg-Cox; professor of English and classics; B.A. (Colorado College); M.A., Ph.D. (University of Chicago).

Anthony Shiu; associate professor of English; B.A. (Ohio University); M.A. (University of Vermont), Ph.D. (Michigan State University).

Robert Stewart; assistant professor of English and editor of New Letters; B.A. (University of Missouri-St. Louis), M.A. (University of Missouri-Kansas City).

Thomas Stroik; professor of English; B.A., M.A., Ph.D. (University of Wisconsin-Madison).

Whitney Terrell; NewLetters Writer in Residence; B.A., (Princeton University); M.F.A. (University of Iowa).
Linda E. Voigts; curators' professor emerita of English; B.A. (William Jewell College); M.A. (University of Missouri-Kansas City); Ph.D. (University of Missouri, Columbia).

David H. Weinglass; professor emeritus of English; B.A., M.A. (St. Catherine's College-University of Cambridge); Ph.D. (Kansas State University).

Robert F. Willson, Jr.; professor emeritus of English; B.A. (Wayne State University); M.A., Ph.D. (University of Wisconsin).

Henrietta Rix Wood; lecturer in English; B.A. (Southern Methodist University); M.A., Ph.D. (University of Missouri-Kansas City).

Jacqueline Wood; associate professor of English & Black Studies; B.A. (Ohio Wesleyan University); M.A. (Florida Atlantic University); Ph.D. (University of Florida).

Foreign Languages and Literature
@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
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Foreign Languages and Literatures
*K. Scott Baker; chair, department of foreign languages and literatures, and associate professor of foreign languages; B.A. (University of Oregon); M.A., Ph.D. (University of Washington).

Patricia P. Brodsky; professor emerita of foreign languages; B.A. (University of Iowa); M.A., Ph.D. (University of California, Berkeley).

Matthew Edwards; assistant professor of foreign languages; B.A. (McGill University); M.A. (University of Ottawa); Ph.D. (Emory University).

Rafael Espejo-Saavedra; professor emeritus of foreign languages; B.A., M.A. (Occidental College); Ph.D. (University of California, Los Angeles).

Louis Imperiale; professor of foreign languages; Licence ès Lettres (Université de Grenoble); M.A. (University of Puerto Rico); Ph.D. (Catholic University of America).

Iman Osman Khalil; associate professor emerita of foreign languages; M.A., Dr.Phil. (University of Munich).

Nacer Khelouz; assistant professor of foreign languages; Licence, Maîtrise (Université de Paris VIII); Ph.D. (University of Pittsburgh).

Kathy M. Krause; professor of foreign languages; B.A. (Dartmouth College); M.A., Ph.D. (University of Pennsylvania).

Gayle A. Levy; associate professor of foreign languages; A.B. (University of California-Berkeley); M.A. (Johns Hopkins University); Ph.D. (Duke University).

Lindsay Myers; assistant teaching professor of foreign languages; B.A. (University of Kansas); M.A., Ph.D. (University of Texas at Austin).

Larson Powell; associate professor of foreign languages; B.A. (Harvard University); M.A., M.Phil., Ph.D. (Columbia University).

Alice Ruth Reckley Vallejos; associate professor of foreign languages; B.A., M.A. (Ohio University, Athens); Ph.D. (University of Kansas).

Timothy A.B. Richards; professor emeritus of foreign languages; B.A. (Bristol University, U.K.); M.A. (University of Wisconsin, Madison); Ph.D. (University of Colorado, Boulder).
Raymond T. Riva; professor emeritus of foreign languages; B.A., Ph.D. (University of Illinois); A.M. (Middlebury College).

*Alberto Villamandos; assistant professor of foreign languages; Licenciatura (University of Navarra, Spain); M.A., Ph.D. (University of Ottawa, Canada).

Herwig G. Zauchenberger; professor emeritus of foreign languages; B.A., M.A. (University of Colorado); Dr. Phil. (University of Vienna); M.A., Ph.D. (Yale University).

Geosciences

@ Associate or Adjunct Graduate Faculty

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# Members of UMKC Doctoral Faculty

Geosciences

**Jimmy O. Adegoke**; Associate Professor of Geosciences; B.S. (Ahmadu Bello University); M.S. (University of Ibadan); Ph.D. (Pennsylvania State University).

**Raymond M. Coveney, Jr.;** Professor of Geosciences; B.S. (Tufts University); M.S., Ph.D. (University of Michigan).

**Caroline P. Davies**; Associate Professor of Geosciences; B.A. (College of William-Smith); M.S. (University of Maine); Ph.D. (Arizona State University).

**Steven L. Driever**; Professor of Geosciences; B.A. (University of Virginia); M.S. (Northwestern University); Ph.D. (University of Georgia).

**Richard J. Gentile**; Professor Emeritus of Geosciences; B.A., M.A. (University of Missouri-Columbia); Ph.D. (University of Missouri-Rolla).

**Edwin D. Goebel**; Professor Emeritus of Geosciences; A.B. (Augustana College); M.S. (University of Iowa); Ph.D. (University of Kansas).

**Syed E. Hasan**; Professor of Geosciences; B.S. (Patna University); M.S. (Indian Institute of Technology, formerly Roorkee University); Ph.D. (Purdue University).

**Paul L. Hilpman**; Professor Emeritus of Geosciences; A.B. (Brown University); M.A., Ph.D. (University of Kansas).

**Daniel P. Hopkins**; Associate Professor of Geosciences; B.A. (Tulane University); Ph.D. (Louisiana State University).

**Wei Ji**; Professor of Geosciences; B.S., M.S. (Peking University); Ph.D. (University of Connecticut).

**Jejung Lee**; Associate Professor of Geosciences; B.S., M.S. (Seoul National University); Ph.D. (Northwestern University).

**James B. Murowchick**; Chair of Department of Geosciences, Associate Professor of Geosciences; B.S. (University of Illinois); M.S., Ph.D. (Pennsylvania State University).

**Tina M. Niemi**; Professor of Geosciences; B.A. (College of Wooster); M.S., Ph.D. (Stanford University).

**Eldon J. Parizek**; Dean Emeritus, College of Arts and Sciences, and Professor Emeritus of Geosciences; B.S., M.S., Ph.D. (University of Iowa).

**Julie L. Urbanik**; Assistant Teaching Professor of Geosciences; B.A. (Randolph-Macon College), M.A. (University of Arizona), Ph.D. (Clark University).
**History**

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

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**History**

**William B. Ashworth, Jr.** ; associate professor of history; B.A. (Wesleyan University); Ph.D. (University of Wisconsin).

**Andrew Bergerson** ; associate professor of history; B.A. (Cornell University); M.A. (University of Edinburgh); Ph. D. (University of Chicago).

**Diane Mutti Burke** ; associate professor of history; B.A. (Dartmouth College); M.A., Ph.D. (Emory University).

**Jessey Choo**, assistant professor of history; B.A. (University of Rochester); M.A. (University of Toronto); M.A. (Princeton University); Ph.D. (Princeton University).

**Gary L. Ebersole** ; department chair, professor of history and director of religious studies; B.A. (Dickinson College); M.A., Ph.D. (University of Chicago).

**James Stephen Falls** ; professor emeritus of history; B.A. (University of Alabama); M.A., Ph.D. (Mississippi State University).

**Miriam Forman-Brunell** ; professor of history; A.B., M.A. (Sarah Lawrence College); Ph.D. (Rutgers University).

**David Freeman** ; assistant professor of history; B.A. (University of Minnesota-Duluth); M.A. Emory University; Ph.D. (Emory University).

**Viviana L. Grieco** ; assistant professor of history; B.A. (Universidad de Buenos Aires); M.A., Ph.D. (Emory University).

**John Herron** ; associate professor of history; B.A., M.A. (Montana State University), Ph.D. (University of New Mexico).

**Carla L. Klausner** ; professor of history and Curator's Teaching Professor; B.A. (Barnard College); M.A. (Radcliffe College); Ph.D. (Harvard University).

**Pellom McDaniels** ; assistant professor of history; B.S. (Oregon State University); M.A. (Emory University); Ph.D. (Emory University).

**Dennis Merrill** ; professor of history; B.A. (Providence College); M.A., Ph.D. (University of Connecticut).

**Linda Mitchell**, professor of history; Martha Jane Phillips Starr/Missouri Distinguished Professor of Women's and Gender Studies; B.A. (Sarah Lawrence College); M.A. (Indiana University); Ph.D. (Indiana University).

**Matthew Osborn** , assistant professor of history; B.A. (University of California Santa Cruz); M.A. and Ph.D. (University of California Davis).

**Lynda Payne** ; associate professor of history; M.A. (University of Edinburgh); Ph.D. (University of California, Davis).

**Patrick A. Peebles** ; professor emeritus of history; B.A. (University of California-Berkeley); M.A., Ph.D. (University of Chicago).

**Louis W. Potts** ; professor emeritus of history; B.A. (Lafayette College); M.A., Ph.D. (Duke University).

@Frances Sternberg ; adjunct instructor of history; B.A.(CUNY-Brooklyn College); M.A. (University of Chicago); Ph.D. (University of Missouri-Kansas City).
*Massimiliano Vitiello*; assistant professor of history; M.A. (University of Rome); Ph.D. (University of Messina); postdoctoral license in medieval studies (Pontifical Institute of Mediaeval Studies-Toronto).

**Mathematics**
@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

**Mathematics and Statistics**
Naeem Ahmad>; lecturer in mathematics; B.S. (University of the Punjab, Pakistan); M.S., Ph.D. (Kansas State University).
@example Jie Chen>; chair, department of mathematics and statistics, professor of statistics; B.S. (Chongqing University, China); M.S. (University of Akron); Ph.D. (Bowling Green State University).
Swati DebRoy>; lecturer in mathematics; B.S. (University of Calcutta, India); M.S., Ph.D. (University of Florida, Gainesville).
@example Richard Delaware>; associate teaching professor of mathematics; B.S. (Santa Clara University); M.A. (University of Kansas); Ph.D. (University of Missouri - Kansas City).
@example Thomas Fisher>; assistant professor of statistics; B.S. (Univ. of Maryland Baltimore); M.S., Ph.D. (Clemson University).
@example Eric J. Hall>; associate professor of mathematics; B.A. (Carleton College); Ph.D. (University of Michigan).
@example Kamel Rekab>; professor of statistics; M.S. (Stanford University); Ph.D. (University of Michigan).
@example Noah H. Rhee>; professor of mathematics; B.S. (Seoul National University, South Korea); Ph.D. (Michigan State University).
@example Liana Sega>; associate professor of mathematics; B.S. (University of Bucharest, Romania); Ph.D. (Purdue University).
Stephanie Van Rhein>; lecturer in mathematics; B.S., M.S. (Missouri University of Science and Technology).
@example Hristo D. Voulov>; associate professor of mathematics; M.S., Ph.D. (Sofia University, Bulgaria).
@example Yong Zeng>; associate professor of statistics; B.S. (Fudan University, China); M.S. (University of Georgia); Ph.D. (University of Wisconsin - Madison).

**Philosophy**
@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
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Philosophy
Bruce Bubacz>; curators' professor of philosophy and professor of law; B.A. (Ripon College); M.S., Ph.D. (University of Washington-Seattle).
Henry R. Frankel; professor of philosophy; A.B. (Oberlin College); Ph.D. (Ohio State University).

George D. Gale, Jr.; Olson professor of philosophy; B.A. (University of Santa Clara); M.A. (San Francisco State University); Ph.D. (University of California-Davis).

Andrew Graham; assistant professor of philosophy; B.A. (Acadia University); Ph.D. (Massachusetts Institute of Technology).

Clancy W. Martin; chair, department of philosophy; professor of philosophy; B.A. (Baylor University); Ph.D. (University of Texas at Austin).

Susanna Rinard; assistant professor of philosophy; B.A. (Stanford University); Ph.D. (Massachusetts Institute of Technology).

James Sheppard; assistant professor of philosophy; B.A. (University of Wisconsin-Eau Claire); M.A. (Michigan State University); Ph.D. (Binghamton University).

Dana Tulodziecki; assistant professor of philosophy; B.S., M.S. (The London School of Economics and Political Science); Ph.D. (Columbia University).

Hans W. Uffelmann; professor emeritus of philosophy; B.A. (University of California-Davis); M.A., Ph.D. (Northwestern University).

Wayne Vaught; Dean of Arts & Sciences and professor of philosophy; B.A. (Georgetown College); M.A. (Baylor University); Ph.D. (University of Tennessee).

Edward F. Walter; professor emeritus of philosophy; B.A. (St. John's University); M.A., Ph.D. (New York University).

**Physics**

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

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**Physics**

James R. Beacham; associate professor emeritus of physics; B.S., M.S., Ph.D. (Purdue University).

Mark Brodwin; assistant professor of physics; B.S. (McGill University); M.S., Ph.D. (University of Toronto).

Paul J. Bryant; professor emeritus of physics; B.S. (Rockhurst College); M.S., Ph.D. (St. Louis University).

Anthony Caruso; associate professor of physics; B.A. (Bethany College); M.S., Ph.D. (University of Nebraska).

Wai-Yim Ching; curators' professor of physics; B.S. (University of Hong Kong); M.S., Ph.D. (Louisiana State University).

Y. C. Jerry Jean; professor of chemistry and physics; B.S. (Taipei Institute of Technology Taiwan); Ph.D. (Marquette University).

Michael B. Kruger; chair, department of physics, and curators' professor of physics; B.S. (State University of New York-Stony Brook); Ph.D. (University of California-Berkeley).

Fred M. Leibsle; associate professor of physics; B.S. (University of Wisconsin); Ph.D. (University of Illinois).

Daniel H. McIntosh; assistant professor of physics; B.S. (University of California, LA); Ph.D. (University of Arizona).
**Richard D. Murphy**; professor emeritus of physics; B.A. (University of Colorado); M.A., Ph.D. (University of Minnesota).

**Marvin R. Querry**; former vice chancellor, academic affairs, and curators' professor emeritus of physics; B.S. (University of Missouri-Kansas City); M.S., Ph.D. (Kansas State University).

**Paul Rulis**; assistant professor of physics; B.S. (Virginia Tech); M.S., Ph.D. (University of Missouri-Kansas City).

**George A. Russell**; president emeritus, University of Missouri, and professor emeritus of physics; B.S. (Massachusetts Institute of Technology); M.S., Ph.D. (University of Illinois).

**Elizabeth P. Stoddard**; associate professor of physics; B.A. (William Jewell College); M.S., Ph.D. (Washington University).

**John R. Urani**; professor emeritus of physics; B.S., M.S., Ph.D. (University of Missouri-Columbia).

**Richard C. Waring**; associate professor emeritus; B.A. (William Jewell College); M.A. (University of Arkansas).

**Jerzy Wrobel**; professor of physics; M.S., Ph.D. (Wroclaw Technical University).

**Da-Ming Zhu**; professor of physics; B.S. (University of Science and Technology of China); M.S., Ph.D. (University of Washington).

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**Political Science**

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

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**Political Science**

**David N. Atkinson**; curators' teaching professor of political science and law; B.A., M.A., J.D., Ph.D. (University of Iowa).

**Reginald L. Bassa, Jr.**; lecturer in political science; B.A. (U.S. Military Academy); M.A. (Columbia University).

**Robert Collins**; part time lecturer; B.A. (University of Missouri - Kansas City); M.A. (University of Missouri - Kansas City); M.U.P. (University of Michigan - Ann Arbor).

**Robert K. Evanson**; associate professor of political science; B.A. (University of Illinois-Urbana); M.A., Ph.D. (University of Wisconsin-Madison).

**Robert E. Gamer**; professor of political science; B.A. (Monmouth College); Ph.D. (Brown University).

**Mohammed M. Hafez**; visiting professor of political science; B.A. (UCLA); M.A. (Univ. of Southern California); Ph.D. (London School of Economics).

**Ben L. Martin**; associate professor emeritus of political science; B.A. (University of Texas); M.A., M.A.L.D., Ph.D. (Fletcher School of Law and Diplomacy, Tufts University).

**Elizabeth Miller**; assistant professor of political science; B.A. (Angelo State University); M.A., Ph.D. (Rice University).

**Harris G. Mirkin**; chair, department of political science, and associate professor of political science; B.A. (Hobart College); M.A. (The New School of Social Research, New York); M.A., Ph.D. (Princeton University).

**Dale Allen Neuman**; professor emeritus of political science; A.B. (Kenyon College); Ph.D. (Northwestern University).
#*Boris E. Ricks*; assistant professor of political science; B.S. (Mississippi Valley State University); M.P.A. (University of Mississippi); M.A., Ph.D. (University of Southern California).

#*Max J. Skidmore*; curators' professor of political science; B.S., B.S. Ed. (Southwest Missouri State); M.Ed. (University of Missouri-Columbia); Ph.D. (University of Minnesota).

**Ross Stephens**; professor emeritus of political science; B.A. (Park College); M.S., Ph.D. (University of Wisconsin-Madison).

**Daniel Stoll**; adjunct professor of political science; B.A. (St. Olaf College); M.A. (Georgetown University); Ph.D. (University of Missouri - Kansas City).

*Psychology*

@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
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Psychology - For the most current listing, see the Department of Psychology website.

Robin K. Aupperle; assistant professor of psychology; B.A. (Oklahoma State University); M.A., Ph.D. (University of Kansas)

#*Kymberley K. Bennett*; assistant professor of psychology; B.A. (University of Redlands); Ph.D. (University of Nevada, Reno)

#*Jannette Berkley-Patton*; assistant professor of psychology; B.S., M.A., Ph.D. (University of Kansas)

#*Amanda S. Bruce*; assistant professor of psychology; B.A. (University of Kansas); M.S., Ph.D. (Pennsylvania State University).

#*Jared M. Bruce*; director, undergraduate psychology program and assistant professor of psychology; B.A. (University of Maine); M.S., Ph.D. (Pennsylvania State University).

*Carl Calkins*; director, UMKC institute for human development and professor of psychology; B.A. (State University of New York); M.A. (Southern Connecticut State College); Ph.D. (Vanderbilt University).

#*Delwyn Catley*; professor of psychology; Bachelor of Commerce (University of the Witwatersrand, Johannesburg, South Africa); M.S. (Purdue University); Ph.D. (State University of NY at Stony Brook).

#*Diane L. Filion*; associate dean, college of arts and science and professor of psychology; B.A. (Eastern Washington University); M.A., Ph.D. (University of Southern California).

Leah K. Gensheimer; associate professor of psychology; B.S. (University of New Haven); M.A. (Adelphi University); Ph.D. (Michigan State University).

#*Kathleen J. Goggin*; associate professor of psychology; B.A. (California State University, Dominguez Hills); Ph.D. (San Diego State University/University of California, San Diego).

Seng-Lark Lim; assistant professor of psychology; B.A., M.A. (Korea University); Ph.D. (Indiana University).

Megan Littrell-Baez; director of undergraduate program advising office and assistant teaching professor; B.S. (Louisiana State University); M.A., Ph.D. (Colorado State University).

#*Jennifer Lundgren*; chair, department of psychology and associate professor of psychology; B.S. (Oklahoma State University); M.A., Ph.D. (University at Albany, State University of New York).
Joan M. McDowd; director, Ph.D. program: experimental health psychology track and professor of psychology; B.A. (Washington University); M.A., Ph.D. (University of Toronto).

**Tamera Burton Murdock**; professor of psychology; B.A., M.S. (University of Pennsylvania); Ph.D. (University of Delaware).

**Melisa Rempfer**; director, Ph.D. program; clinical psychology (health emphasis) track and associate professor of psychology; B.S. (University of Iowa); M.A., Ph.D. (University of Kansas).

**Lisa Terre**; director of the MA in psychology program and associate professor of psychology and medicine; B.A. (Rutgers University); M.A. (Roosevelt University); Ph.D. (Auburn University).

**Retired Faculty**

**Jim Collins**, associate professor emeritus of psychology.

**Jay Hewitt**, associate professor emeritus of psychology.

**Joseph B. Hughey**, professor emeritus of psychology; B.A., M.A. (Wichita State University); Ph.D. (University of Tennessee).

**Charles L. Sheridan**, professor emeritus of psychology.

**Social Work**

@ Associate or Adjunct Graduate Faculty

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**Graduate Social Work**

**Gloria Anderson**, Clinical Instructor School of Social Work; B.A. (Dallas Baptist University); M.S.W. (University of Missouri-Kansas City).

**Rosalyn M. Bertram**, Associate Professor of Social Work; B.A. (San Francisco State University); M.S.W. (San Francisco University); Ph.D. (University of South Florida).

**Betty Blackmon**, Assistant Professor of Social Work; B.A. (Northeastern State University); M.S.W., J.D. (University of Kansas).

**J. Larry Dyer**, Clinical Instructor School of Social Work; B.A. (University of Texas); M.A. (North Texas State University); M.S.W. (University of Kansas); Ph.D. (University of Kansas).

**Monica Nandan**, Chair, Program Director and Associate Professor of Social Work; B.Com. (University of Poona, India); MBA (Augusta University); M.S.W., Ph.D. (Florida State University).

**Bob Prue**, Assistant Professor of Social Work; M.S.W., Ph.D. (University of Kansas)

**Lee Rathbone-McCuan**, Professor of Social Work; B.A. (University of Kentucky); M.S.W., Ph.D. (University of Pittsburgh).

**Patricia Scott**, Assistant Professor of Social Work; M.S.W., Ph.D. (University of Wisconsin).

**Elaine Spencer-Carver**, Director of Field Education School of Social Work; B.S. (Stephen F. Austin State University in Nacogdoches, Texas); M.S.W. (University of Kansas); Ph.D. (Kansas State University).

**Rhonda J. Weimer**, Clinical Instructor School of Social Work; B.A. (University of Colorado); M.S.W. (University of Kansas); L.C.S.W. (Missouri); L.S.C.W. (Kansas).
Sociology
@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Sociology
**Jeffrey S. Bennett**; assistant professor of anthropology and religious studies; B.A. (University of Washington); M.A., Ph.D. (University of Chicago).
**Linda M. Breytspraak**; chair, department of sociology, and associate professor of sociology and medicine; B.A. (Colorado College); M.A., Ph.D. (Duke University).
**Miguel A. Carranza**; professor of sociology and latina/latino studies program; B.A. (Kearney State College); M.A., Ph.D. (University of Notre Dame).
**Thomas E. Carroll**; associate professor emeritus of sociology; B.A. (Indiana University); M.A., Ph.D. (University of Minnesota).
**Marc Garcelon**; associate professor of sociology; B.A. (University of Washington); M.A., Ph.D. (University of California at Berkeley).
**Burton Halpert**; associate professor emeritus of sociology and medicine; B.A. (Drake University); M.A. (University of Manitoba); Ph.D. (University of Minnesota).
**Jessica Hardie**; assistant professor of sociology; B.A. (Wellesley College); M.S.T. (Pace University); M.A., Ph.D. (University of North Carolina-Chapel Hill).
**Jennifer Huberman**; assistant professor of anthropology; B.A. (Boston University); M.A., Ph.D. (University of Chicago).
**Shannon Jackson**; associate professor of anthropology; B.A., M.A. (University of Connecticut); Ph.D. (University of Chicago).
**Ricardo Marte**; assistant teaching professor of sociology; B.A. (State University of New York at Binghamton); M.A., Ph.D. (University of Nevada, Reno).
**Sookhee Oh**; assistant professor of sociology; B.A. (Ewha Woman's University, Korea); M.C.P. (Seoul National University, Korea); Ph.D. (Milano Graduate School of Management and Urban Policy, The New School).
**Philip G. Olson**; professor emeritus of sociology; B.A., M.A. (University of Arizona); Ph.D. (Purdue University).
**Clovis Semmes**; professor of sociology and black studies; director of black studies program; B.A., Ph.D. (Northwestern University); M.A. (University of Illionis, Chicago).
**Peter M. Singlemann**; professor emeritus of sociology; B.A. (University of Hamburg-Germany); Ph.D. (University of Texas).
**Deborah Smith**; associate professor of sociology and director of family studies; B.S., Ph.D. (Cornell University); M.A. (University of Minnesota).
**Theresa L. Torres**; assistant professor of sociology and anthropology; B.A. (Benedictine College); M.A. (Boston College); O.S.B. (Order of St. Benedict); Ph.D. (Catholic University of America).
**Ann Wood**; assistant teaching professor of sociology; B.A. (Grinnell College); M.A., Ph.D. (University of Kansas).
Theatre

@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Theatre

*Erika Bailey ;; assistant professor of theatre; B.A. (Williams College); M.F.A. (Brandeis University); M.A. (Central School of Speech and Drama).
Charles (Chaz) Bell ;; teaching assistant professor of technical theatre; B.A. (Southwest Baptist University); M.F.A. (University of Missouri-Kansas City).
Lindsay Davis;; associate professor of theatre; B.A. (Harvard College); M.F.A. (New York University-Tisch School of the Arts).
Jeff Dreisbach; adjunct associate professor of theatre; B.F.A. (Wayne State University).
*John Ezell ; Hall Family Foundation Professor of Design; B.F.A. (Washington University); M.F.A. (Yale University).
*Gene Friedman ; associate professor of theatre.
@Charles Hayes ; teaching professor of theatre; B.A. (Augustana College); M.F.A. (University of Iowa).
Ricardo Khan ; visiting professor of theatre (director, new project development); honorary doctorate (Rutgers University).
*Barry Kyle ; professor of theatre arts; M.A. (University of Birmingham-U.K.).
**Felicia Londré ; curators' professor of theatre; B.A. (University of Montana); M.A. (University of Washington-Seattle); Ph.D. (University of Wisconsin-Madison).
Greg Mackender ; teaching assistant professor of theatre sound.
*Tom Mardikes ; chair, department of theatre, and professor of theatre; B.A., M.F.A. (University of Missouri-Kansas City).
**Jennifer K. Martin ; Hall Family Foundation Professor of Movement; B.S. (Bowling Green State University); M.F.A. (University of North Carolina-Greensboro); Ph.D. (University of Michigan).
Patricia A. McCorkle; adjunct professor of theatre; B.A. (Douglass College-Rutgers University); M.A. (New York University).
Carla Noack ;; assistant professor of theatre; B.A. (College of St. Benedict); M.F.A. (University of Missouri-Kansas City).
Sarah M. Oliver ; teaching assistant professor of theatre; B.F.A. (Kansas City Art Institute); M.F.A. (University of Missouri-Kansas City).
*Stephanie Roberts ; assistant professor of theatre; B.F.A. in acting (Cornish University); M.F.A. in ensemble-based physical theatre (Dell' Arte International School of Physical Theatre).
@Ronald Lee Schaeffer ; teaching professor of theatre; B.S. (Bradley University); M.A. (University of Missouri-Kansas City).
Scott Stackhouse ;; teaching assistant professor of theatre in acting; B.A. (University of Missouri-Kansas City); M.F.A. (University of California-Los Angeles).
*Theodore Swetz ; The Patricia McIlrath Endowed Professor of Theatre Arts in Acting; B.A. (Lehman College of the City University of New York).
*Victor Tan ; professor of theatre.
Jacques Burdick; professor emeritus of theatre.

UMKC 2012-13 Faculty Page 18
Cal Pritner; professor emeritus of theatre.
Vincent Scassellati; associate professor emeritus of theatre.
Douglas C. Taylor; professor emeritus of theatre.

School of Biological Sciences
@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

**Karen J. Bame**; graduate programs officer and associate professor of biological sciences; B.S. (University of California-Santa Barbara); Ph.D. (University of California-Los Angeles).
**James M. Benevides**; research assistant professor of biological sciences; B.S. (University of Massachusetts); M.S., Ph.D. (University of Rhode Island).
**Donald J. Black**; research assistant professor of biological sciences; B.S. (Fresno State University); Ph.D. (Ohio State University).
**Samuel Bouyain**; associate professor of biological sciences; Diploma of Engineer (École Nationale Supérieure de Chimie de Paris); D.Phil. (University of Oxford).
**Raymond L. Burich**; associate professor emeritus of biological sciences; B.S., M.S. (Kent State University); Ph.D. (Iowa State University).
**Gerald M. Carlson**; adjunct professor of biological sciences; B.S. (Washington State University); Ph.D. (Iowa State University).
**Julia Chekonova**; assistant professor of biological sciences; M.S. (Moscow State University); Ph.D. (USSR Academy of Sciences, Moscow).
**Leonard L. Dobens, Jr.**; associate professor of biological sciences; B.S. (Boston College), Ph.D. (Dartmouth College).
**Lawrence A. Dreyfus**; dean, school of biological sciences, and professor of biological sciences; B.A. (University of Kansas); M.S. (Michigan State University); Ph.D. (University of Kansas).
**Alfred F. Esser**; professor emeritus; M.S., Ph.D. (J.W. Goethe University, Germany).
**Mark T. Fisher**; adjunct professor of biological sciences; Ph.D. (University of Illinois-Urbana).
**David R. Garris**; teaching associate professor of biological sciences; B.S. (Eastern Michigan University); Ph.D. (Wayne State University).
**Brian V. Geisbrecht**; associate professor of biological sciences; B.S. (St. Vincent College); Ph.D. (The Johns Hopkins University School of Medicine).
**Erika R. Geisbrecht**; assistant professor of biological sciences; B.S. (University of Wisconsin-Madison); Ph.D. (The Johns Hopkins University School of Medicine).
**Edward P. Gogol**; associate professor of biological sciences; A.B. (Cornell University); M. Phil., Ph.D. (Yale University).
**Regina R. Grindstaff**; teaching assistant professor of biological sciences; B.S. (Missouri Southern State University); Ph.D. (University of Missouri-Columbia).
**R. Scott Hawley**; adjunct professor of biological sciences; Ph.D. (University of Washington).
**Saul M. Honigberg**; associate professor of biological sciences; B.S. (University of Georgia); Ph.D. (Yale University).
Chi-Ming Huang; associate professor of biological sciences; B.S. (National Taiwan University, Taiwan); M.S., Ph.D. (University of California-Los Angeles).

Alexander Idnurm; assistant professor of biological sciences; B.S., Ph.D. (University of Melbourne).

Ana J. Iriarte; associate professor emeritus of biological sciences; M.S., Ph.D. (University of Navarre, Spain).

Chris L. Jordan; research instructor in biological sciences; B.S. (Central Missouri State University), M.S. (Purdue University); Ed.S. (University of Missouri-Kansas City).

Tamas Kapros; teaching associate professor of biological sciences; B.S., Doctor Universitatis in Genetics, Ph.D. (Jozsef Attila University of Sciences, Szeged, Hungary).

J. Andrew Keightley; research associate professor of biological sciences; B.S., Ph.D. (University of New Mexico-Albuquerque).

Peter Koulen; adjunct professor of biological sciences; m.s., ph.D. (Johnnes Gutenberg University, Germany).

John H. Laity; associate professor of biological sciences; B.A. (Rutgers University), M.S. (Columbia and Cornell Universities), Ph.D. (Cornell University).

Douglas Law; teaching associate professor of biological sciences; B.S., Ph.D. (Duke University).

Lee Likins; research instructor in biological sciences; B.S. (University of West Florida-Pensacola); M.A. (University of Kansas).

Ronald A. MacQuarrie; professor emeritus of biological sciences; B.S. (University of California-Berkeley); Ph.D. (University of Oregon).

Marino Martinez-Carrion; professor and dean emeritus of biological sciences; B.A., M.A., Ph.D. (University of California-Berkeley).

Joseph R. Mattingly, Jr.; teaching assistant professor of biological sciences; B.A. (Bellarmine College); Ph.D. (University of Notre Dame).

Malcolm McCallum; assistant teaching professor of biological sciences; B.s. (Illinois State University); M.S. (Eastern Illinois University); Ph.D. (Arkansas State University).

Kevin McCluskey; research associate professor in biological sciences; B.S., M.S. (Stanford University); Ph.D. (Oregon State University).

Denis Medeiros; professor of biological sciences; B.S. (Central Connecticut State University); M.S. (Illionnis State University); Ph.D. (Clemson University).

Thomas M. Menees; associate professor of biological sciences; B.S., M.S. (University of California Irvine); Ph.D. (Yale University).

Henry M. Miziorko; head, molecular biology and biochemistry division, Marion-Merrell-Dow Missouri professor and professor of biological sciences; B.S. (St. Joseph's University); Ph.D. (University of Pennsylvania).

William T. Morgan; professor emeritus of biological sciences; B.S. (University of Pittsburgh); Ph.D. (University of California-Santa Barbara).

Michael O'Connor; associate professor of biological sciences; B.A. (Trinity College Dublin); Ph.D. (National University of Ireland).

Anthony Persechini; professor of biological sciences; B.A. (University of New Hampshire), Ph.D. (Carnegie-Mellon University).

Lynda S. Plamann; associate dean for academic affairs and associate professor of biological sciences; B.A. (Augustana College); Ph.D. (University of Iowa).
Michael Plamann; associate professor of biological sciences; B.S. (University of Wisconsin); Ph.D. (University of Iowa).

Jeffrey L. Price; associate professor of biological sciences; B.S. (College of William and Mary); Ph.D. (Johns Hopkins University).

G. Sullivan Read; professor of biological sciences; B.A. (Williams College); M.S. (Yale University); Ph.D. (Pennsylvania State University).

Aaron Reed; research assistant professor of biological sciences; B.S. (Kansas State University); M.S. (University of Memphis); Ph.D. (Kansas State University).

Garth E. Resch; associate professor of biological sciences; B.A., M.A., Ph.D. (University of Missouri-Columbia).

Ann Smith; professor of biological sciences; B.Sc. (University of Hull, England); Ph.D. (University of London, England).

Salvatore L. Stella; adjunct assistant professor of biological sciences; B.S (University of Nebraska Medical Center); Ph.D. (San Diego State University).

George J. Thomas, Jr.; professor emeritus; B.S. (Boston College); Ph.D. (Massachusetts Institute of Technology).

Jakob H. Waterborg; associate professor of biological sciences; B.S., M.S., Ph.D. (Katholieke Universiteit Nijmegen, The Netherlands).

Tammy S. Welchert; student services coordinator in biological sciences; B.S., M.S. (Southwest Missouri State University); Ed.S. (University of Missouri-Kansas City).

Theodore C. White; head, cell biology and biophysics division, Marion Merrell Dow professor in biological sciences; B.S. (Cornell University); Ph.D. (University of Michigan).

Gerald J. Wyckoff; associate professor of biological sciences; B.S. (Cornell University); Ph.D. (University of Chicago).

Xiaolan Yao; assistant professor of biological sciences; B.S., M.S. (Zhenghou University, China); Ph.D. (Iowa State University).

Lynwood R. Yarbrough; adjunct professor of biological sciences; Ph.D. (Purdue University).

Marilyn Yoder; associate professor of biological sciences; B.S. (University of Kentucky); Ph.D. (University of California-Riverside).

Yu, Xiao-Qiang(Sean); associate professor of biological sciences; Ph.D. (Kansas State University).

Henry W. Bloch School of Management

Members of UMKC Graduate Faculty

Arif Ahmed; assistant professor of health administration; B.D.S. (Dhaka Dental College); M.S.P.A., Ph.D. (University of Illinois - Urbana-Champaign).

Latheff N. Ahmed; professor emeritus of public administration; B.A. (University of Mysore); M.A., Ph.D. (University of Kansas).

Richard J. Arend; associate professor of entrepreneurship and innovation; B.A.Sc. (University of Toronto); M.B.A. (York University); Ph.D. (University of British Columbia); P.E.

Rajinder Arora; Schutte Professor of Marketing and chair, Department of Marketing and Supply Chain Management; B.S., M.S. (University of Southern California); Ph.D. (Claremont Graduate School).
Roy E. Baker; professor emeritus of accounting; B.S., M.B.A. (University of Kansas); D.B.A. (Harvard University); C.P.A.

Brian L. Belt; professor emeritus of business and public administration; B.I.E, M.S.I.E (Ohio State University); M.B.A. (Texas Christian University); Ph.D. (University of North Texas).

Lee G. Bolman; Marion H. Bloch/Missouri Endowed Chair in Leadership; B.A. (Yale College); Ph.D. (Yale University).

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**Bryan R. Becker**; professor; B.S. (University of Missouri-Rolla); M.S. (University of Missouri-Columbia); Ph.D. (University of Tennessee-Knoxville); P.E.

**Anthony Black**; adjunct instructor; B.S. (Brigham Young University); M.S., Ph.D. (Purdue University); P.E.

**Katherine H. Bloemker**; assistant teaching professor; B.S., M.S. (Stanford University)

**ZhiQiang Chen**; assistant professor; B.S. (Southeast University, Nanjing, China); M.S. Michigan Technological University); Ph.D. (University of California-San Diego).

**Lawrence Drbal**; adjunct professor; B.S. (University of Nebraska); M.S., Ph.D. (Kansas State University); P.E.

**Patricia Funk**; adjunct instructor; B.A. (Avila University); M.B.A. (Rockhurst University).

**Trent M. Guess**; associate professor; B.S. (University of Kansas); M.S. (Colorado State University); Ph.D. (University of Kansas).
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**Robert Hanlin**; instructor; B.S., M.S. (Colorado School of Mines); P.E.

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**Dan Justice**; adjunct professor; B.S. (University of Missouri-Rolla); M.S., Ph.D. (University of Texas-Austin).

**Michael Kelly**; instructor; B.S. (University of Missouri-Rolla).

#*John T. Kevern*; assistant professor; B.S. (University of Wisconsin-Platteville); M.S., Ph.D. (Iowa State University); LEED AP.

#*Greg King*; assistant professor; B.S., M.S., Ph.D. (University of Kansas).

**Robert Lambrechts**; adjunct professor; B.S., M.S. (University of Missouri Columbia); J.D. (St. Louis University).

**Rudolph L. Leutzinger, Sr.**; former director, general engineering program, and associate professor emeritus; B.A. (Iowa State College); M.E. (University of Michigan); Ph.D. (University of Iowa); P.E. (Retired).

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**James F. Mahoney, Jr.**; adjunct instructor; B.S., M.S. (University of Missouri-Columbia/Kansas City); P.E.

**Mark F. McClernon**; chair, department of civil and mechanical engineering, and associate professor; B.S. (Rockhurst University); M.S., Ph.D. (University of Notre Dame); P.E.

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**Reza Derakhshani**; associate professor; B.S. (Iran University of Science and Technology); M.S., Ph.D. (West Virginia University).

**Deendayal "Dinakar" Dinakarpandian**; assosicate professor; M.D. (Jawaharlal Institute of Post-Graduate Medical Education and Research, Pondicherry, India); Ph.D. (Case Western Reserve University); M.S. (University of Missouri-Kansas City).

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**Brian Hare**; assistant teaching professor; M.S. (University of Houston and University of Missouri-Kansas City).

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**Mary Lou Hines Fritts**; research professor, CIO and vice provost for academic programs; B.S., M.S., Ph.D. (Kansas State University).

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**Michael W. Kelly**; instructor; B.S. (University of Missouri-Rolla).

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**Walter D. Leon-Salas**; assistant professor; B.S. (San Agustin National University, Arequipa, Peru); M.S., Ph.D. University of Nebraska-Lincoln).

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**Edwin R. Bailey**; professor emeritus of education; A.B., B.S., M.A. (Western Michigan University); Ph.D. (Michigan State University).

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Gary E. Widmar; former vice chancellor for student affairs and professor emeritus of education; B.S. (Illinois State University); M.Ed. (University of Illinois); Ph.D. (Florida State University).

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David J. Achtenberg; professor of law and Law Foundation scholar; B.A. (Harvard University); J.D. (University of Chicago).

David N. Atkinson; Curators' professor of political science and law emeritus; B.A., M.A., J.D., Ph.D. (University of Iowa).

Mark Berger; professor of law and Oliver H. Dean Senior Faculty scholar; B.A. (Columbia University); J.D. (Yale University).

Jeffrey B. Berman; Associate Dean and Patrick D. Kelly Peer professor of law; B.S. (City University of New York); J.D. (Brooklyn Law School); M.S. (University of Denver).

William K. Black; associate professor of economics and law; A.B., J.D. (University of Michigan); Ph.D. (University of California at Irvine).

Bruce Bubacz; Curators' professor of philosophy and professor of law; B.A. (Ripon College); M.S., Ph.D. (University of Washington-Seattle).

Paul D. Callister; professor of law and Director, Leon E. Bloch Law Library; B.A. (Brigham Young University); J.D. (Cornell Law School); M.S. in Library & Information Science (University of Illinois at Urbana-Champaign).

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S. Rafe Foreman; Douglas Stripp Dean's Distinguished professor of law & Director of advocacy; B.S. (Texas A&M); J.D. (Texas Tech).

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Mary Kay Kisthardt; Tiera M. Farrow faculty scholar and professor of law; B.A. (King's College); J.D. (Dickinson State College); LL.M. (Yale University).

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Danielle Merrick; assistant clinical professor of law; B.S.W. (University of Kansas); J.D. (University of Missouri-Kansas City); LL.M. (University of Missouri-Kansas City).

Andre Moenssens; Douglas Stripp/Missouri emeritus professor of law; J.D. (Chicago-Kent College of Law); LL.M. (Northwestern University).

Marcia L. Narine; visiting assistant professor of law; B.S. (Columbia); J.D. (Harvard).

Sean D. O'Brien; associate professor of law; B.A. (Northwest Missouri State University); J.D. (University of Missouri-Kansas City).

Mary Kay O'Malley; associate clinical professor and Director of child and family services clinic; B.A. (St. Mary-of-the-Woods College); J.D. (Washburn University); M.A. (University of Missouri-Kansas City).

Laura O'Sullivan; assistant clinical professor of law and Legal Director, Midwest Innocence Project; B.A. (University of Kansas); J.D. (St. Louis University).

Judith Popper; associate clinical professor of law; B.A. (Agnes Scott College); J.D. (University of Missouri-Kansas City).

John W. Ragsdale Jr.; William P. Boreland Distinguished Faculty scholar and professor of law; B.A. (Middlebury College); J.D. (University of Colorado); LL.M. (University of Missouri-Kansas City); S.J.D. (Northwestern University).
Patrick A. Randolph Jr. ; Elmer F. Pierson professor of law; B.A. (Yale University); J.D. (University of California-Berkeley).

Allen K. Rostron ; William R. Jacques Constitutional Law scholar and professor of law; B.A. (University of Virginia); J.D. (Yale Law School).

Judith A. Sharp ; Staff Director, Entrepreneurial Legal Services clinic and clinical professor of law; B.A. (Stephens College); M.A. (Bowling Green [Ohio] State University); J.D., L.L.M. (University of Missouri-Kansas City).

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Wanda M. Temm ; clinical professor of law and Director, Legal Writing and Bar Services; B.A. (Ottawa University); M.S. (Purdue University); J.D. (University of Kansas).

Jeffrey Thomas ; Associate Dean, Daniel L. Brenner Faculty scholar and professor of law; B.A. (Loyola Marymount University); J.D. (University of California-Berkeley).

Daniel Weddle ; clinical professor and Director of academic support; B.S. (University of Kansas); J.D. (University of Kansas).

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Judith Frame Wiseman ; teaching professor and Associate Director of LL.M. tax program; B.B.A. (University of Wisconsin); J.D. (University of Tulsa); LL.M. (New York University).

Academic Librarians
@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Stephen P. Alleman ; librarian III; head of collections; B.A. (Tulane University); M.L.S. (Louisiana State University); M.A. (University of New Orleans).

Christine A. Angolia ; librarian II; research and liaison librarian; B.A. (Hartwick College); M.P.A. (New York University); M.L.S. (State University of New York, Albany).

@ Paul D. Callister ; director, Leon E. Bloch Law Library, and professor of law; B.A. (Brigham Young University); J.D. (Cornell Law School); M.S.L.I.S. (University of Illinois at Urbana-Champaign).

Marsha G. Carothers ; librarian I; assistant dental librarian; B.A. (University of Missouri-Kansas City); M.A. (University of Missouri-Columbia); M.A. (University of Missouri-Kansas City).

Scott Curtis ; librarian II; research and liaison librarian; B.S. (University of Pittsburgh); M.S. (The George Washington University); M.L.S. (Emporia State University).

Brenda L. Dingley ; librarian II; director of scholarly communications; B.A. (Indiana University); A.M.L.S. (University of Michigan-Ann Arbor).

Cindi Ernst ; librarian II; government documents/reference librarian; Leon E. Bloch Law Library; B.S. (University of Southern Mississippi); M.I.S.L.T. (University of Missouri-Columbia).
Kathleen Hall; librarian II; director of public services, Leon E. Bloch Law Library; B.A. (Central Michigan University); J.D.(Marshall-Wythe School of Law, College of William & Mary); M.I.S.L.T. (University of Missouri-Columbia).

Stuart Hinds; librarian II; director of special collections; B.A. (University of Missouri-Kansas City); M.A. (University of Iowa).

Tracey Hughes; librarian II; dental instructional resources librarian/reference librarian; B.S. (McPherson College); M.I.S.L.T. (University of Missouri-Columbia); M.A.L.S. (University of Missouri-Kansas City).

Diane K. Hunter; librarian III; head of teaching and learning services; A.B. (Indiana University); M.S. (Georgetown University); M.L.S. (Ball State University).

Brent Husher; librarian I; Coordinator of the Virtual Library; B.S. (Missouri State University); M.A. (University of Missouri-Columbia).

Chris Le Beau; librarian III; assistant teaching professor and research and liaison librarian; B.A. (Marymount College); M.L.S. (Long Island University); M.B.A. (Creighton University).

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Buddy D. Pennington; librarian II; director of collections and access management; B.S., B.S., M.L.S. (University of Missouri-Columbia).

Bonnie Postlethwaite; librarian IV; dean of libraries; B.S.E. (University of Kansas); B.A. (University of Kansas); M.A. (University of Kansas); M.S.L.S. (University of Illinois).

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Susan U. Sanders; librarian II; clinical medical librarian/reference librarian; B.A. (Montclair State University); M.L.S. (Emporia State University); M.Ed (University of Missouri-Columbia).

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Wendy A. Sistrunk; librarian III; head of special formats metadata and cataloging; B.M. (Kansas State University); M.M. (Arizona State University); M.S. (Simmons College).

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Fu Zhuo; librarian III; research and liaison librarian; B.A., M.A. (Wuhan University); M.Ed. (University of Western Ontario); M.L.I.S. (University of Alberta).

**School of Medicine**

Louise M. Arnold; associate dean and director of the Office of Medical Education and Research and professor of medicine and sociology; A.B. (University of North Carolina); Ph.D. (Cornell University).

Michael Artman; associate dean for Children's Mercy Hospital Programs; chairman, Department of Pediatrics and professor of medicine; M.D. (Tulane University)

Julie Banderas; assistant dean of Graduate Studies; chair, of the Graduate Council and professor of medicine; B.A., Pharm.D., (University of Nebraska)

Paul Cuddy; senior associate dean for Academic Affairs and professor of medicine; B.S. (Massachusetts College of Pharmacy); Pharm.D. (University of Missouri-Kansas City)

Diana Dark; associate dean for St. Luke's programs and professor of medicine; B.A./M.D. (University of Missouri-Kansas City)

E. Grey Dimond; founder, school of medicine, and provost emeritus, health sciences, and professor emeritus for the health sciences and distinguished professor of medicine; B.S., M.D. (Indiana University).

Betty M. Drees; dean, school of medicine, and professor of medicine; B.A. (Wichita State University); M.D. (University of Kansas).

Stefanie Ellison; associate dean for curriculum; chair of the Council on Curriculum; associate professor of medicine; B.A., M.D. (University of Nebraska)

John Foxworth; assistant dean of Faculty Development and professor of medicine; B.A. (University of Missouri-Kansas City) Pharm.D. (University of Missouri)

Sara E. Gardner; chair for the council on evaluation and assistant professor of medicine; B.A./M.D. (University of Missouri-Kansas City)

Stephen Griffith; chair of the selection council; associate professor of medicine; A.B. (Washington University); M.D. (University of Missouri)

David C. Hermanns; chairman for faculty council and assistant professor of medicine; B.A. (University of Kansas); M.D. (Baylor College of Medicine); M.P.H. (Boston University School of Public Health)

Dev Maulik; senior associate dean for Women's Health; chairman, Department of Obstetrics and Gynecology and professor of medicine; M.D. (University of Calcutta); Ph.D (University of London)

Jill A. Moormeier; associate dean for Graduate Medical Education and associate professor of medicine; B.S. (Stanford University); M.D. (University of Nebraska College of Medicine); M.P.H. (St. Louis University)

Stuart. Munro; associate dean for Center for Behavioral Medicine programs; chairman, Department of Psychiatry and professor of medicine; B.A., M.D. (Emory University)
Felix Okah; assistant dean of Career Advising and professor of medicine; M.D. (University of Ibadan); M.S. (University of Cincinnati)

George R. Reisz; chair of the docent council; chairman, Department of Internal Medicine, and Dr. Edward H. Hashinger Distinguished Professor of Internal Medicine; M.D. (Indiana University)

Shauna R. Roberts; chair for the council on CME and associate professor of medicine; B.A./M.D. (University of Missouri-Kansas City)

Brenda Rogers; associate dean for Student Affairs and assistant professor of medicine; B.A./M.D. (University of Missouri-Kansas City)

Travis Solomon; associate dean for Research and research professor, Department of Basic Medical Science; Ph.D. (University of Texas Graduate School of Biomedical Science) M.D. (University of Texas Medical School)

Mark T. Steele; associate dean for Truman Medical Center programs and associate professor of medicine; B.A./M.D. (University of Missouri-Kansas City).

Richard W. Trullinger; assistant dean for Allied Health Programs; B.A., M.S. (Portland State University; Ph.D. (University of Oklahoma)

Susan B. Wilson; associate dean Diversity and Community Partnership and assistant professor, Department of Psychiatry; B.A., M.S., Ph.D. (University of Pittsburgh)

Rose Zwerenz; assistant dean for Truman Medical Center East programs and associate professor of medicine; B.A./M.D. (University of Missouri-Kansas City).

Conservatory of Music and Dance

@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

@Marita Abner ; assistant teaching professor of music (bassoon); B.A. (Swarthmore College); M.M. (Yale University).

Olga Ackerly; associate professor emeritus of music (musicology); B.M., M.M. (Manhattan School of Music); M.A., M.Ph., Ph.D. (University of Kansas).

Incir Bashar; professor emeritus of music (voice); L.I.B. (University of Istanbul); (Istanbul's Civic Conservatory of Music); (Hochschule fur musick, Munich); (Ankara State Opera Studio). (Former member of the Cologne, Dortnund and Istanbul state operas.)

Marciem Bazell; assistant professor of music (opera) and director of opera; B.M. (Temple University)

Shirley Bean; associate professor emeritus of music (music theory); B.M.E. (University of Kansas City); M.M., D.M.A. (University of Missouri-Kansas City).

Robert Beck ; director of conservatory recording; B.L.A., M.F.A. (University of Missouri-Kansas City).

Melita J. Belgrave; assistant professor of music (music therapy); B.M. (Michigan State University); M.M., Ph.D. (The Florida State University).

Keith Benjamin ; professor of music (trumpet); B.M.E. (Morningside College); M.M. (University of Northern Iowa); D.M.A. (Eastman School of Music). (Member of Missouri Brass Quintet.)
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@Barbara Bishop; assistant teaching professor of music (oboe); B.M. (Eastman School of Music); M.M. (University of Minnesota).

#*Robert Bode; professor of music (choral conducting), Raymond R. Neve/MISSouri Professor of Choral Music and director of choral activities; B.A., M.M. (University of Texas); D.M.A. (University of Cincinnati)

Hugh Brown; associate professor emeritus of music (viola).


#*Chen Yi; Lorena Searcy Cravens/Millsap/MISSouri Endowed Professor in Composition; B.A., M.A. (Central Conservatory of Music, Beijing); D.M.A. (Columbia University).

@#Un Chong Christopher; adjunct assistant professor of music (voice); B.M., M.M. (University of Missouri-Kansas City).

Mark E. Clark; teaching associate (piano technician); B.M. (University of Texas-Austin); (Registered piano technician).

#*Vinson Cole; professor of music (voice); Artist Diploma (Curtis Institute of Music)

#*JoDee Davis; associate professor of music (trombone); B.M., M.M. (University of Northern Iowa); D.M. (Indiana University). (Member of Missouri Brass Quintet.)

Steven D. Davis; associate professor of music (conducting, wind symphony); B.M.E. (Florida State University), M.M. (University of Minnesota)

#*Anne B. DeLaunay; associate professor of music (voice, music/opera literature); B.M., M.M., D.M.A. (Louisiana State University).

Eph Ehly; professor emeritus of music (choral music, conducting); B.A. (Kearney State College); M.A. (George Peabody College for Teachers); D.M.A. (University of Colorado).

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#*Carter Enyeart; Rose Ann Carr Millsap/MISSouri Endowed Professor in Cello; B.M. (Eastman School of Music); M.M. (Carnegie-Mellon University).

#*William Everett; professor of music (musicology); B.M. (Texas Tech University); M.M. (Southern Methodist University); Ph.D. (University of Kansas).

Raymond Feener; associate professor of music (voice); B.M., M.M. (Ohio University); D.M. (Florida State University).

#*Hali Fieldman; associate professor of music (music theory); B.M. (Peabody Conservatory of Music); M.A.M., M.M. (Eastman School of Music); Ph.D. (University of Michigan).

#*Mara Gibson; program director and adjunct assistant professor (composition); B.A. (Bennington College); M.M., Ph.D. (SUNY-Buffalo).

#*Andrew Granade; assistant professor of music (musicology); B.M. (Ouachita Baptist University); M.M., Ph.D. (University of Illinois).

#*Robert W. Groene II; associate professor of music (music therapy) and director of music therapy; B.S., M.A., Ph.D. (University of Minnesota).

Gustavo R. Halley; associate professor emeritus of music (voice); B.A. (Jacksonville University); M.M., D.M. (Florida State University).

Alexander W. Hamilton; associate professor emeritus of music (music education); B.S.E., M.Ed. (University of Arkansas); D.M.A. (University of Texas at Austin).
**Deanna Hanson-Abrameit**; associate professor of music (music therapy); B.M., M.A. (University of Iowa); Ph.D. (University of Kansas).

**Linda Ross Happy**; associate professor emeritus of music (class piano); B.M.E. (University of Nebraska); M.M. (Northwestern University); D.M.A. (University of Colorado).

**@Paul Hatton**; adjunct assistant professor of music (violin); (Juilliard School); (North Carolina School of the Arts).

**Milton G. Hehr**; associate professor emeritus of music (music theory, music history and literature); B.M. (Jordan College of Fine Arts of Butler University); M.M., Ph.D. (Boston University).

**Mary Pat Henry**; professor of dance (ballet); B.F.A. (University of Utah); M.F.A. (Florida State University).

**Dee Anna Hiett**; assistant professor of dance

**Patricia Higdon**; teaching assistant, collaborative pianist (piano sight reading); B.M. (Houghton College); M.M. (Cleveland Institute of Music).

**Mary Lou Jones**; adjunct associate professor of music (music education); Ph.D. (University of Missouri-Kansas City)

**Jeffrey Kail**; adjunct professor of music (string bass); B.M. (Indiana University)

**@Karen Kushner**; adjunct associate professor of music (piano); B.M. (Northwestern University); M.M. (Juilliard School).

**Wanda Latham-Radocy**; professor emeritus of music (music therapy); B.M.E., M.M.E, Ph.D. (University of Kansas).

**@Scott Lee**; associate professor of music (viola); B. M. (The Juilliard School); M.M. (Mannes College of Music).

**John R. Leisenring**; professor emeritus of music (trombone/jazz studies); B.M., M.M. (University of Wisconsin-Madison); D.M.A. (University of Illinois).

**@Kenneth Lidge**; assistant teaching professor of music (music theory); B.M. E. (University of Wisconsin-Eau Claire); M.M. (University of Illinois-Champaign); D.M.A. (University of Missouri-Kansas City).

**@Mary Jo Lorek**; assistant teaching professor of music (music theory); B.M. (University of North Carolina); M.M. (University of Kentucky); Ph.D. (Florida State University).

**Sabrina Madison-Cannon**; associate professor of dance (modern); B.F.A. (National Academy of Arts); M.F.A. (University of Iowa).

**Christopher McLaurin**; adjunct professor of music (percussion); B.M. (San Jose State University); graduate diploma (Juilliard School).

**#*John McIntyre**; professor of music (piano); Artist Diploma (University of Toronto); M.M. (Boston University); Graduate study (Paris Conservatory).

**#*James Mobberley**; curators' professor of music (composition); B.A., M.M. (University of North Carolina at Chapel Hill); D.M.A. (Cleveland Institute of music).

**#*Dale Morehouse**; associate professor of music (voice, opera); B.A. (University of Central Florida); M.M. (Binghamton University).
Laura New; assistant teaching professor of music (music theory); B.A. (Delta State University); M.M. (New Mexico State University).

*Douglas Niedt; associate professor of music (guitar); B.M. (University of Missouri-Kansas City); (Studied with Segovia, Ghiglia, Yepes, Morel and Parkening. Records with Antigua Records.)

Ryan Oldham; adjunct assistant professor of music (music appreciation); B.A. (Indiana University of Pennsylvania); M.M. (University of Louisville); D.M.A. (University of Missouri-Kansas City)

**Robert Olson; professor of music (conducting, orchestra); B.M. (Northern Illinois University); M.M. (Michigan State University); D.M.A. (University of Washington).

**Joseph Parisi; associate professor of music (music education, instrumental music); B.M. (State University College of New York at Potsdam); M.M. (Florida State University); Ph.D. (Florida State University).

Marian F. Petersen; professor emeritus of music (theory); B.A. (San Francisco State University); M.M., Ph.D. (University of Utah).

**Diane Petrella; assistant professor of music (piano, piano pedagogy); B.M. (Eastern Illinois University); M.M. (University of Wisconsin-Madison); D.M.A. (University of North Texas).

@Nicholas Petrella; adjunct assistant professor of music (percussion); B.S. (Pennsylvania State University); M.M. (University of Michigan); D.M.A. (University of Iowa)

**Mary Posses; associate professor of music (flute); B.A., M.M., M.M.A., D.M.A. (Yale University).

Ruth Anne Rich; professor emeritus of music (piano); B.M. (Florida State University); M.M. (Peabody Conservatory of Music); D.M.A. (Eastman School of Music); Diplome de Virtuosite (Schola Cantorum, Paris); License d'Enseignement (L'Ecole Normale de Musique, Paris); Licentiateship in Piano Performance (Royal Academy of Music, London).

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**Paul Rudy; professor of music (composition); B.A. (Bethel College); M.M. (University of Colorado, Boulder, Co); D.M.A. (The University of Texas at Austin).

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**James Snell; associate professor of music (percussion); B.M. (University of Illinois); M.M. (Southern Methodist University); D.M.A. (University of Missouri-Kansas City).

**Aidan Soder; assistant professor of music (voice); B.M. (University of Nebraska at Omaha); M.M., D.M.A. (Rice University)
Jane Solose; associate professor of music (piano/harpsichord); B.M. (University of Toronto); M.M., D.M.A. (Eastman School of Music).

Joan Sommers; professor emeritus of music (accordion); Associate Diploma and Licentiate Diploma (Accordion Institute of America in conjunction with the British College of Accordionists).

Paul Sommers; professor emeritus of music (voice); D.M.A. (University of Illinois).

Thomas Stein; associate professor of music (tuba, euphonium); B.M., M.M. (University of Michigan, Ann Arbor). (Member of Missouri Brass Quintet.)

Kent Swafford; teaching assistant (piano technician); (University of Kansas); (Registered piano technician).

Ronald Tice; assistant professor of dance; B.F.A. (University of Minnesota).

Timothy Timmons; associate professor of music (saxophone); B.M. (University of Tulsa); M.M. (Northwestern University).

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Robert Watson; William and Mary Grant/Missouri Endowed Professor in Jazz Studies; B.M. (University of Miami).

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Robert Weirich; Jack Strandberg/Missouri Endowed Chair in Piano, professor of music (piano); B.M. (Oberlin Conservatory of Music); D.M.A. (Yale University).

Bram Wijnands; adjunct instructor of music (jazz studies); B.M. equivalent (Hilversum Conservatory, Netherlands).

Lindsey R. Williams; assistant professor of music (music education); B.M.E., M.M.E., University of Kansas; Ph.D. (Florida State University)

Richard Lee Williams; assistant professor of music (coach-accompanist, foreign language for singing); B.A., B.M. (University of Akron); M.M. (University of Illinois).

Peter T. Witte; professor of music (instrumental conducting); B.M., M.M., M.M. (University of Michigan)

Zhou Long; distinguished professor of music (composition); B.A. (Central Conservatory of Music, Beijing); D.M.A. (Columbia University).

School of Nursing

* Members of UMKC Graduate Faculty

Eduardo Abreu; visiting assistant professor of nursing; B.S., M.S. (Federal University Rio de Janerio); M.D. (State University Rio de Janerio); D.Eng. (Cleveland State University).

Marti Anselmo; clinical instructor of nursing; B.S.N. (Central Missouri State University); M.S.N. (University of Missouri-Kansas City).

Obie Austin; clinical instructor of nursing; B.S.N. (Missouri Western State University); M.S.N. (University of Missouri-Kansas City).

Susan E. Bennett; clinical instructor of nursing; B.S.N. (University of Missouri-Columbia); M.S.N. (Texas A&M).

Margaret Brommelsiek; instructor; B.A. (Eckerd College); M.S., Ph.D. (Florida State University).
Marco Brotto; associate professor medicine and nursing and director of muscle biology group; B.S.N. (Federal University, Brazil); M.S. Pharmacology (Federal University, Brazil); PhD. (Trinity college, UK).

An-Lin Cheng; assistant professor of nursing; M.S., Ph.D. (University of Georgia).

Janis Ellis-Claypool; teaching assistant professor; B.S.Ed. (University of Kansas); M.S. (York University).

Erin Ellington; clinical assistant professor; B.A. (Western Kentucky University); M.S.N. (Vanderbilt University; D.N.P. (University of Missouri-Kansas City).

Darla C. Engelbrecht; clinical instructor of nursing; B.S.N. (Missouri Southern State University); M.S.N. (University of Phoenix).

Kara Flowers; clinical instructor of nursing; B.S.N., M.S.N. (Graceland University).

Martha Goodwin; clinical instructor of nursing; B.S.N. (University of Kansas); M.S.N. (University of Colorado).

Melinda Gould; clinical instructor of nursing; B.S.N. (University of Phoenix); M.S.N. (University of Utah).

Mary E. Hertach; clinical instructor of nursing; B.S.N., M.S.N. (Newman University).

Judy Willis Hileman; clinical assistant professor of nursing; B.S.N., M.N., Ph.D. (University of Kansas).

Kim Hunter; clinical instructor of nursing; B.S.N., M.S.N. (University of Kansas); M.S.N. (University of Missouri-Kansas City).

Jennifer Hunter; associate professor of nursing; B.S.N. (University of Tulsa); M.S.N., Ph.D. (University of Kansas).

Patricia Kelly; Ph.D. program director and professor of nursing; B.A. (SUNY-Albany); M.S.N. (Pace University); M.P.H. (Columbia University); Ph.D. (University of Illinois).

Susan J. Kimble; M.S.N. and D.N.P. program director and clinical associate professor of nursing; B.S.W. (University of Nebraska); B.S.N., M.S.N., D.N.P. (University of Missouri-Kansas City).

Diana B. King; clinical instructor of nursing; B.S.N. (Missouri Western State University); M.S.N. (University of Missouri-Kansas City).

JoAnn G. Klaassen; clinical assistant professor of nursing; B.A. (Tabor College); B.S.N., M.N. (Wichita State University); J.D. (University of Missouri-Kansas City).

Steve Krantz; associate professor of nursing/education; B.A., M.S. (University of Utah); Ph.D. (Utah State University).

Lora Lacey-Haun; dean, school of nursing, and professor of nursing; B.S.N., M.S.N. (University of Alabama-Birmingham); Ph.D. (University of Missouri-Kansas City).

Wm. David LaFevers; clinical instructor of nursing; B.S.N. (Southwest Baptist University); M.S.N., D.N.P. (University of Missouri-Kansas City).

Sarah Landram; clinical instructor of nursing; B.S.N. (William Jewell College); M.S.N.(University of Missouri-Kansas City).

Kristin C. Lee; clinical assistant professor of nursing; B.S.N. (Purdue University); M.S.N. (University of Missouri-Kansas City).

Lyla Lindholm; clinical assistant professor of nursing; B.S.N. (Washburn University); M.N. (University of Kansas); D.N.P. (University of Missouri-Kansas City).

Martha Lofgreen; clinical assistant professor of nursing; B.S.N. (University of Kansas); M.S.N. (University of Missouri-Kansas City).
Jolene Lynn; pre-licensure and accelerated B.S.N. program director and clinical assistant professor of nursing; B.S.N. (Pittsburg State University); M.A. (Webster University); M.S.N. (University of Missouri-Kansas City).

Ronalda V. Manney: clinical assistant professor of nursing; B.S.N. (Central Missouri State University); M.S.N. (University of Missouri-Kansas City).

Loretta J. North: clinical instructor of nursing; B.S.N. (Dillard University); M.S.N. (University of South Alabama).

Ginny Nyberg: clinical instructor of nursing; B.S.N. (Avila University); M.S.N. (Webster University).

Jane Anthony Peterson: assistant professor of nursing; B.S. (Kearney State College); M.S.N. (Texas Woman's University); Ph.D. (University of Nebraska Medical Center).

Mary A. O'Connor: assistant professor of nursing; B.S.N. (St. Louis University); M.S. (Webster University); Ph.D. (University of Kansas).

Lynn M. Rasmussen: assistant clinical professor of nursing; B.S.N., M.S.N. (University of Kansas); Ph.D. (University of Missouri-Kansas City).

Daphne A. Reavey: clinical instructor of nursing; B.S.N. (University of Kansas); M.S.N., Ph.D. (University of Missouri-Kansas City).

Cristine A. Roberts: assistant professor; B.S.N. (University of Kansas); M.S.N. (University of Utah); Ph.D. (University of Missouri-Kansas City).

Melissa Joy Roberts: assistant dean for student affairs and assistant professor of nursing; B.S.N., M.S.N. (University of Missouri-Columbia); J.D. (University of Missouri-Kansas City).

Judi M. Roling: assistant clinical instructor of nursing; B.S.N. (Columbia Union College); M.S.N. (The Catholic University of America).

Carol E. Schmer: clinical instructor of nursing; B.S.N., M.S.N., Ph.D. (University of Missouri-Kansas City).

Anita J. Skarbek: R.N.-B.S.N. program director and clinical assistant instructor of nursing; B.S.N., M.S.N. (University of Missouri-Kansas City).

Katharine (Kit) V. Smith: associate professor and assistant dean for program evaluation, school of nursing; B.A. (University of Missouri-Columbia); B.S.N. (Graceland College); M.N., Ph.D. (University of Kansas).

Melissa Smith: clinical instructor of nursing; B.S.N. (East Carolina University); M.S.N. (University of Tennessee-Memphis); D.N.P. (University of Missouri-Kansas City).

Leah C. Stanley: clinical assistant professor of nursing; B.S.N. (Webster University); M.S.N. (Webster University).

Ellen Tappero: clinical instructor of nursing; B.S.N. (University of South Carolina); M.N. (University of California-Los Angeles); D.N.P. (Arizona State University).

Carol W. Trotter: clinical assistant professor of nursing; B.S.N., M.P.H. (University of Minnesota); Ph.D. (University of Missouri-St. Louis).

Lyn E. Vargo: clinical assistant professor of nursing; B.S. (Purdue University); B.S.N., M.S.N. (St. Louis University); Ph.D. (University of Missouri-St. Louis).

Brenda G. Walker-Williams: clinical instructor in nursing; B.S.N., M.S.N. (Webster University).

Peggy Ward-Smith: associate professor of nursing; B.S.N. (Rush University); M.S.N. (St. Xavier University); M.S. (Avila University); Ph.D. (University of Missouri-Kansas City).

Nancy Willis-Smith: clinical instructor of nursing; B.S.N. (Pittsburg State University); M.S.N. (University of Missouri); D.N.P. (University of Missouri-Kansas City).
**Thad Wilson**; associate dean, school of nursing, and associate professor of nursing; B.S.N. (Graceland College); M.S. (University of Utah); Ph.D. (University of Kansas).

**Jacquelyn S. Witt**; clinical associate professor of nursing; B.S.N. (Central Missouri State University); M.S.N., J.D. (University of Missouri-Kansas City).

**Pamela S. Young**; clinical instructor of nursing; B.S.N. and M.S.N. (Allen College, Iowa).

**Shawn L. Zembles**; clinical assistant professor of nursing; B.S.N. (Graceland University); M.S.N., D.N.P. (University of Missouri-Kansas City).

**Christine M. Zimmerman**; clinical instructor of nursing; B.S.N. (Creighton University); M.S.N. (University of Missouri-Kansas City).

**School of Pharmacy**

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

+ Located at UM-St. Louis campus

**Daniel Aistrope**; clinical assistant professor of pharmacy practice and administration; Pharm.D. (Creighton University School of Pharmacy and Health Professions).

**Lynn E. Anliker**; clinical assistant professor of pharmacy practice and administration; Pharm.D. (Drake University).

**Mostafa Z. Badr**; professor of pharmacology and toxicology; B.S., M.S. (Cairo University, Egypt); Ph.D. (University of Louisville).

**Hari Bhat**; associate professor of pharmacology and toxicology; B.S., M.S. (University of Kashmir, India); Ph.D. (University of Texas Medical Branch-Galveston).

**Wayne M. Brown**; associate professor of pharmacy practice and administration; B.S. (Medical College of South Carolina); M.S., Ph.D. (University of Mississippi).

**Angela Brownfield**; clinical assistant professor of pharmacy practice and administration and assistant director, experiential programs; Pharm.D. (St. Louis College of Pharmacy).

**Patrick J. Bryant**; clinical professor of pharmacy practice and administration and director, UMKC Drug Information Center; Pharm.D. (University of Nebraska Medical Center).

**Andrew S. Bzowyckyi**; clinical assistant professor of pharmacy practice and administration; B.S., Pharm.D. (University of Connecticut).

**Frank Caligiuri**; clinical assistant professor of pharmacy practice and administration; Pharm.D. (Drake University College of Pharmacy & Health Sciences).

**Lester Chafetz**; professor emeritus of pharmaceutical science; B.S. (University of Rhode Island); M.S., Ph.D. (University of Wisconsin).

**Kun Cheng**; assistant professor of pharmaceutical science; B.S., M.S. (China Pharmaceutical University, China); M.S. (National University of Singapore, Singapore); Ph.D. (University of Tennessee).

**Kelly Cochran**; clinical assistant professor of pharmacy practice and administration; Pharm.D. (Butler University).

**Kristen DiDonato**; clinical assistant professor of pharmacy practice and administration; B.A. (Wittenberg University); Pharm.D. (The Oho State University).

**Glenn H. Eberhart**; professor emeritus of pharmacology and toxicology; B.S. (University of Denver); M.S., Ph.D. (University of California).
Jack E. Fincham; professor of pharmacy practice and administration; B.S. (University of Nebraska); Ph.D. (University of Minnesota).

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Maqual Graham; associate professor of pharmacy practice and administration; Pharm.D. (University of Missouri-Kansas City).

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Orisa J. Igwe; associate professor of pharmacology and toxicology; B.S. (Northeast Louisiana University); M.S. (University of Kentucky); Ph.D. (University of Cincinnati).

Marcus B. Iszard; teaching associate professor of pharmacology and toxicology; B.S., M.S., Ph.D. (Florida A&M University).

Thomas P. Johnston; professor of pharmaceutical sciences; B.S., Ph.D. (University of Minnesota).

Maureen E. Knell; clinical associate professor of pharmacy practice and administration; Pharm.D. (University of Missouri-Kansas City).

Peggy G. Kuehl; clinical associate professor of pharmacy practice and administration; B.S. (South Dakota State University); Pharm.D. (University of Minnesota).

Anil Kumar; professor of pharmacology and toxicology and chair, Division of Pharmacology and Toxicology; B.S., M.S. (Lucknow University, India); Ph.D. (Kanpur University, India).

Santosh Kumar; assistant professor of pharmacology and toxicology; B.S. (University of Delhi, India); M.S., Ph.D. (Indian Institute of Technology, India).

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Chi H. Lee; professor of pharmaceutical science; B.S. (Seoul National University, South Korea); M.S. (University of Washington); Ph.D. (Rutgers University).

Cameron C. Lindsey; professor of pharmacy practice and administration; Pharm.D. (University of Missouri-Kansas City).

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Srikumaran K. Melethil; professor emeritus of pharmaceutical science; B.Pharm., M.Pharm. (Andhra University, India); Ph.D. (State University of New York at Buffalo).

#*Ashim K. Mitra; vice provost for interdisciplinary research, co-director of Vision Research Center, curators professor of pharmaceutical science and chair, Division of Pharmaceutical Science; B.S., M.S. (Jadavpur University, India); M.S., Ph.D. (University of Kansas).

#*Mridul Mukherji; assistant professor of pharmaceutical science; B.S. (University of Allahabad, India); M.S. (University of Calicut, India); Ph.D. (University of Oxford, United Kingdom).

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Lauren Odum; clinical assistant professor of pharmacy practice and administration; Pharm.D. (University of Missouri-Kansas City).

Erica Ottis; clinical assistant professor of pharmacy practice and administration; Pharm.D. (St. Louis College of Pharmacy).

Heather A. Pace; clinical assistant professor of pharmacy practice and administration; Pharm.D. (University of Missouri-Kansas City).

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David Phillips; clinical assistant professor of pharmacy practice and administration; Pharm.D. (Ohio Northern University Raabe College of Pharmacy).

#*Rafia S. Rasu; associate professor of pharmacy practice and administration; B.S., M.S., M.B.A. (Dhaka University, Dhaka, Bangladesh); Ph.D. (University of Texas).

William J. Rost; professor emeritus of pharmaceutical science; B.S., Ph.D. (University of Minnesota).

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Jennifer A. Santee; clinical associate professor of pharmacy practice and administration; Pharm.D. (University of Iowa).

Stephanie Schauner; clinical assistant professor of pharmacy practice and administration; Pharm.D. (University of Missouri-Kansas City).

Andrew Smith; clinical assistant professor of pharmacy practice and administration; Pharm.D. (University of Missouri-Kansas City).

Kathleen A. Snella; associate dean, school of pharmacy, and clinical associate professor of pharmacy practice and administration; B.S. (University of Iowa); Pharm.D. (The University of Texas at Austin and The University of Texas Health Science Center at San Antonio).

Roger W. Sommi, Jr.; professor of pharmacy practice and administration; B.S. (University of Wisconsin-Madison); Pharm.D. (University of Utah).

Morgan Sperry; clinical assistant professor of pharmacy practice and administration; Pharm.D. (Creighton University).
Steven Stoner; clinical professor of pharmacy practice and administration and chair, Division of Pharmacy Practice and Administration; Pharm.D. (University of Nebraska).

**Jianping Wang**; assistant professor of pharmacology and toxicology; M.D., M.S. (Second Military Medical University); Ph.D. (Louisiana State University of Health Sciences Center).

Elizabeth Winans; clinical associate professor of pharmacy practice and administration; B.S. (Kansas State University); B.S., Pharm.D. (University of Oklahoma College of Pharmacy).

Eric Wombwell; clinical assistant professor of pharmacy practice and administration; Pharm.D. (University of Missouri-Kansas City).

**Bi-Botti C. Youan**; associate professor of pharmaceutical science; Pharm.D. (University of Cote, Abidjan); MBA (United Business Institutes, Belgium); M.Sc., Ph.D. (Catholic University of Louvain, Belgium).

David M. Yourtee; professor emeritus of pharmacology and toxicology, School of Pharmacy and School of Medicine; B.S. (University of Missouri-Columbia); Ph.D. (University of Missouri-Kansas City).
Undergraduate Courses

College of Arts & Sciences Courses

American Studies (AMER-ST)

AMER-ST 250 Introduction To American Studies I
This course is the first half of the year long, required introductory course in American Studies. It is also open to all undergraduates. It focuses on works and authors, from the turn-of-the-century to the present, who are generally considered part of the American Studies canon and emphasizes understanding what America is/was according to these writers. The course is grounded in questions of citizenship, civic responsibility, ethics, character, progress and westward expansion. It will also look at the place of distinct disciplines (political science, English, anthropology, history, sociology, communication studies) in grappling with many of these questions. The course will introduce students to American Studies as an area of study and interdisciplinary scholarship as a methodological tool. Offered: Fall Semester.

AMER-ST 251 Introduction To American Studies II
This course is the second half of the year long, required introductory course in American Studies. It is also open to all undergraduates. Students will be expected to locate themselves within American Studies as an area of study and will be pushed to think critically about the field by looking at the work of scholars in Cultural History, Media Studies, Regional Studies, Black Studies, Public History, Critical Legal Studies, Women's Studies and American Studies in an international context. Students will also be encouraged to place this scholarship in dialogue with that from the first semester in order to look at the boundaries of a field that is constantly changing. Prerequisite: A&S 250 Offered: Winter Semester.

AMER-ST 300CD American Social Film: Silver Screen And The American Dream
This course will combine American social history and American film history. Using Hollywood entertainment films, the course will look at Hollywood as an indicator of social, political and economic conditions in the United States from the early 1900s to the late 1950s. The main topics are war and the threat of war, poverty and affluence, racial tensions, censorship, and political zealotry. A paper is required and a social history textbook, a film history textbook, a play by Arthur Miller, an a collection of articles constitute core readings. This course is offered as a cluster with COMM- ST 402CD and ENGLISH 300cd

AMER-ST 301 American Stds: Is/Tutorial: Themes In The American Popular Arts
This course uses the popular arts as an entree to the examination of stereotypes in American life, to a better understanding of challenges to tradition, and to assessing the consequences of conflict that have resulted from cultural pluralism. This is a modified independent study course. Students are exposed to some of America's best-known literature, films and music. Instructional audio tapes and traditional literature about American Culture show the relevance of examples of popular art to broader themes. Prerequisites: Concurrent enrollment in AMER-ST 302P and AMER-ST 303PW. Offered: On demand.

AMER-ST 301P American Studies:Is/Tutorial:Themes In The American Popular Arts
This course uses the popular arts as an entree to the examination of stereotypes in American life, to a better understanding of challenges to tradition, and to assessing the consequences of conflict that have resulted from cultural pluralism. This is a modified independent study course. Students are exposed to some of America's best-known literature, films and music. Instructional audio tapes and traditional literature about American Culture show the relevance of examples of popular art to broader themes. Prerequisites: Concurrent enrollment in AMER-ST 302P and AMER-ST 303PW. Offered: On demand.

AMER-ST 301P American Studies:Is/Tutorial:Themes In The American Popular Arts
This course uses the popular arts as an entree to the examination of stereotypes in American life, to a better understanding of challenges to tradition, and to assessing the consequences of conflict that have resulted from cultural pluralism. This is a modified independent study course. Students are exposed to some of America's best-known literature, films and music. Instructional audio tapes and traditional literature about American Culture show the relevance of examples of popular art to broader themes. Prerequisites: Concurrent enrollment in AMER-ST 302P and AMER-ST 303PW. Offered: On demand.
**AMER-ST 302 Survey Of American Studies**
This course offers a look at changes and continuities in American life from the era of British colonization to the present. It emphasizes philosophical, scientific and creative ideas that have had lasting effects, changing social structure, the factors that determine lifestyle, and the consequences of the national preoccupation with pluralism and consensus. The course also covers the main features of American political history. Prerequisite: Concurrent enrollment in AMER-ST 303PW. Offered: On demand.

**AMER-ST 302P Survey Of American Studies**
This course offers a look at changes and continuities in American life from the era of British colonization to the present. It emphasizes philosophical, scientific and creative ideas that have had lasting effects, changing social structure, the factors that determine lifestyle, and the consequences of the national preoccupation with pluralism and consensus. The course also covers the main features of American political history. Prerequisite: Concurrent enrollment in AMER-ST 303PW. Offered: On demand.

**AMER-ST 303PW Methods & Problems In American Studies**
This course examines four topics that are important in American culture; each topic is approached from a different methodological perspective. The topics (problems) are related to cultural resources in the Kansas City area (such as a museum exhibit or a library research collection) and may change from semester to semester. Methods of problem solving are determined by the topic; however, students should expect to participate in oral history, interpretation of material culture, and traditional archival research and document analysis. Prerequisite: Concurrent enrollment in AMER-ST 302P. Offered: On demand.

**AMER-ST 303W1 Methods & Problems In American Studies**
This course examines four topics that are important in American culture; each topic is approached from a different methodological perspective. The topics (problems) are related to cultural resources in the Kansas City area and may change from semester to semester. Methods of problem solving are determined by the topic; however, students should expect to participate in oral history, interpretation of material culture, and traditional archival research and document analysis.

**AMER-ST 340 Seminar: Critical Issues In American Culture**
An interdisciplinary seminar which will examine various cultural topics relevant to understanding contemporary issues in American society. Students will write individual research papers as well as offer critiques of each other's work. Prerequisites: None. Offered: Every Fall semester.

**AMER-ST 340P American Material Culture: The 20th Century**
This course will focus on the material culture of modern and post-modern America. This is an area of inquiry particularly well-suited to the examination of material culture resources. Students will be required to write a term paper or do a material culture project. Offered: Fall

**AMER-ST 340PP American Material Culture: The 1950s**
This course will focus on the period of American culture from demobilization after World War II to the end of the 1950s--an era particularly well-suited to employing material culture resources as evidence. Students will be required to write a term paper or do a material culture project.

**AMER-ST 340PP American Material Culture: The 1950s**
This course will focus on the period of American culture from demobilization after World War II to the end of the 1950s--an era particularly well-suited to employing material culture resources as evidence. Students will be required to write a term paper or do a material culture project.
AMER-ST 341 American Material Culture: Objects And Images
This course will examine American cultural and social history from earliest times to the present, with a special emphasis on the ways artifacts and visual images can provide information and insight about the American experience. Offered: Fall

AMER-ST 341 American Material Culture: Objects And Images
This course will examine American cultural and social history from earliest times to the present, with a special emphasis on the ways artifacts and visual images can provide information and insight about the American experience. Offered: Fall

AMER-ST 341P American Material Culture: Objects And Images
This course will examine American cultural and social history from earliest times to present, with a special emphasis on the ways artifacts and visual images can provide information and insight about the American experience.

AMER-ST 342 American Material Culture: Museums
This course will focus on local institutions that use material culture in their presentation of history and the American experience. Offered: Fall

AMER-ST 342 American Material Culture: Museums
This course will focus on local institutions that use material culture in their presentation of history and the American experience. Offered: Fall

AMER-ST 342P American Material Culture: Museums
This course will focus on local institutions that use material culture in their presentation of history and the American experience.

AMER-ST 375 Censorship And Popular Culture In America
The First Amendment to the Constitution states that "Congress shall make no law ... abridging the freedom of speech or the press." The American experience, however, is that controversial books, radio and television programs, motion pictures, and, most recently, the Internet have been subjected to various types of censorship. This course will study the censorship of popular culture in America.

AMER-ST 380 Decade Of Dissent: The 1960s
The social movements and conflicts that developed during the 1960s continue to define American culture in the 1990s. Questions of racial and gender equity, a greater willingness to challenge authority, concerns about the environment, and a new openness about issues of sexuality all developed during the Sixties and remain as arenas of debate today. This course will examine the origins, contexts, and major themes of these social and cultural movements.

AMER-ST 400 Special Studies
Pertinent courses from academic units throughout campus may be cross-listed with this course and applied to the major's requirements in American Studies. Prerequisite: None. Offered: Fall, Winter, Summer.

AMER-ST 400A Special Studies

AMER-ST 400B Special Studies

AMER-ST 400C Special Studies

AMER-ST 400CW Cc: Critical Issues in Women's & Gender Studies
What does it mean to grow up a female in America? How does being female influence the body, the mind, identity? This course is an interdisciplinary exploration of the issues that have shaped the lives of American women throughout the life cycle and across the timeline. This course examines the role that culture and society have played in shaping and defining what it means to be an American girl and woman. This course is cross-listed as ANTHRO 300CL, ANTHRO 5580CL, SOCIOL 303CW, and SOCIOL 5580CL.

AMER-ST 400D Special Studies

AMER-ST 400F Special Studies
AMER-ST 400G Special Studies

AMER-ST 400J Special Studies

AMER-ST 400L Special Studies

AMER-ST 400M Special Topics

AMER-ST 400P Special Studies

AMER-ST 400S Special Studies
Pertinent courses from academic units throughout campus may be cross-listed with this course and applied to the major's requirements in American Studies. Prerequisite: None. Offered: Fall, Winter, Summer.

AMER-ST 400SF Special Studies
Pertinent courses from academic units throughout campus may be cross-listed with this course and applied to the major's requirements in American Studies. Prerequisite: None. Offered: Fall, Winter, Summer.

AMER-ST 400W Special Studies

AMER-ST 410P The American Conception Of Evil: Historical And Cultural Contexts
This interdisciplinary course may focus on time periods in American history where the concept of evil has played a crucial role in determining public attitudes and policy, as well as the Western European roots of those attitudes. The course may focus on several broad time periods and topics: Western Europe before Columbus and during the initial years of contact between Europeans and Native Americans; Puritan New England, including the Salem witch trials; indentured servitude and slavery among Africans and other racial minorities; the Progressive Era; World War II, especially the experiences of American liberators of the concentration camps, the Japanese American internment experience, and the decision to use the atomic bomb; and Post WWII, especially the Cold War, the Vietnam War, 9/11, and contemporary hate groups.

AMER-ST 411P The American Conception Of Evil: Readings In Primary Sources
This interdisciplinary course is a companion to American Studies 410P and may focus on understanding documents from the listed time periods in light of their original contexts, as well as developing an understanding of the roots of contemporary definitions of evil. Selections may include Puritan captivity narratives, diary entries, sermons, fiction, poetry, oral histories, WPA interviews with former slaves, films, television shows, and other appropriate materials.

AMER-ST 430 American Studies Internship
Internship opportunities for advanced students involved in community and campus activities. Students must receive approval of the Director or Assistant director of American Studies prior to enrollment. No more than 6 credit hours can be taken. Prerequisites: None. Offered: Fall, Winter, Summer.

AMER-ST 440WI Senior Seminar
Students enrolling in this course will produce an interdisciplinary research paper under the direction of the instructor in cooperation with other American Studies faculty. and peer review with other American Studies students. Prerequisite: AMER-ST 400 Offered: Fall/Winter/Summer

Anthropology (ANTHRO)

ANTHRO 103 Introduction To Cultural Anthropology
An introduction to culture and the basic concepts of anthropology. Topics include kinship, language, and cultural change. Also offered as SOCIOL 103. Offered: Fall/Winter.

ANTHRO 202R Social Organization
This course focuses on the principles of social organization that undergird all human societies: social groups; age and gender differences; the institutions of family, economy, religion and polity; power; community and other units of residence; and social differentiation based on such factors as wealth and/or prestige. The focus of analysis is on the maintenance of social order, social
change, and integration of society. Crosslisted with SOCIOL 202R. Prerequisite: SOCIOL 101. Offered: Every semester.

ANTHRO 205 The Social Life of Things
This course examines the ways anthropologists have studied the connections between people and things. It explores how social relationships are created and changed through the use and exchange of objects, and how objects themselves take on particular meanings and histories in these processes. In questioning the relationship between material culture and human sociality, the course will expose students to a range of ethnographic and historical case studies, as well as introduce them to some core theoretical perspectives and debates within anthropology.

ANTHRO 207 Writing Culture: The Craft of Ethnography
This course will explore the contexts in which powerful social groups learn, talk, and write about less powerful groups. The course material will explore how the identities and biases of anthropologists condition how they perceive, analyze, and represent others. Students will compare changes in ethnographic methods, theories, and styles across time and geography.

ANTHRO 212 Global Health
This course will use the lens of critical medical anthropology to analyze the sources of poor health outcomes, health disparities, and the global impacts of health policy. Students will explore the connections between population health and other aspects of social life, such as power, inequality, war, and economics, exploring the ways in which globalization and the privatization of health creates conditions that facilitate disease.

ANTHRO 300AF Special Topics In Anthropology

ANTHRO 300B Special Topics In Anthropology
Each time this course is offered, a different area of anthropology, to be announced, will be examined. Crosslisted with SOCIOL 300R. Prerequisite(s); None. Offered: On demand.

ANTHRO 300CL Cluster Course: Introduction To Women'S Studies

ANTHRO 300CL Cluster Course: Introduction To Women'S Studies

ANTHRO 300CS Spec Topics Anthropology
Each time this course is offered, a different area of anthropology, to be announced, will be examined.

ANTHRO 300R Special Topics In Anthropology
Each time this course is offered, a different area of anthropology, to be announced, will be examined. Also offered as SOCIOL 300R.

ANTHRO 300RE Special Topics In Anthropology

ANTHRO 300RF Special Topics In Anthropology

ANTHRO 300RV Special Topics In Anthropology

ANTHRO 300RV Special Topics In Anthropology

ANTHRO 300SR Special Topics in Anthropology

ANTHRO 300YS Special Topics In Anthropology

ANTHRO 302 Social Stratification
The distribution of power, privileges and prestige are examined in a historical and comparative perspective. The process whereby distribution systems develop, become institutionalized, and become transformed are analyzed. Also offered as SOCIOL 302.
ANTHRO 303CN Cluster Course: Terrorism, Civil War and Trauma
This interdisciplinary course examines the modern experience of terrorism and civil war in the light of art, film, history, literature, and philosophy. It explores a number of traumatic events, historic and contemporary, challenging us to think about such contemporary issues as violence and identity formation, civil rights and state-sponsored terrorism, pacifism and patriotism, resistance and collaboration, fundamentalism and fascism, neo-colonialism and anti-imperialism. Cross-listed with English 300CN.

ANTHRO 305 Language and Culture
This course is designed to familiarize students with the basic objects, aims, and methods of linguistic anthropology. Students will acquire this familiarity by studying both theoretical and ethnographic articles that focus on some of the major areas of concern within the field including: the evolution of human language, linguistic particularity and universality, the relationship of language to thought, structuralism and semiotics, trope theory, language and emotion, sociolinguistics, the development of writing systems, and language conservation and change.

ANTHRO 306 Culture, Emotion, and Identity
This course introduces students to some of the key theoretical perspectives and debates within the field of psychological anthropology. By drawing upon cross-cultural studies of emotion, personhood, sexuality, illness, and consciousness it seeks to understand some of the ways that culture and society influence human psychology and experience.

ANTHRO 314 Anthropology of Gender
This class explores theories of the social construction of gender in cross-cultural contexts. It will also explore global issues of local and international politics, the economy, work and education as these relate to gender.

ANTHRO 322 Race And Ethnic Relations
The nature, origin and dynamics of ethnic and race relations in the U. S. and other societies. Specific attention will be given to the historical and contemporary contexts of prejudice, discrimination and confrontation. Also offered as Soc 322. Offered: Fall/Winter.

ANTHRO 324 Diversity And You
This course will examine diversity from the perspectives of race, ethnicity, class and gender. Emphasis will be placed on the impact of racism, classism and sexism on interpersonal relationships and strategies to encourage diversity in schools, neighborhoods, and the work place. Students may also enroll in "directed research" in conjunction with his course.

ANTHRO 327 Us Government's Indian Policies: Practices Of A Colonizing Nation
This class will convey information about the implementation of US Government policies, from treaty making, establishing reservations, removing, confronting tribes militarily, and abolishing reservations through allotment resulted in consequences detrimental to tribal welfare. The colonization process created ramifications and consequences that Indian people contend with to this day. This class will provide a historical overview of the consequences associated with political, social, and economic processes that divested Indian people of control over their lives and land they originally lived on. Also cross listed as SOCIOL 323.

ANTHRO 328 Body and Society
Body and Society is an interdisciplinary and comparative approach to the study of the body as the subject and object of social processes. Interdisciplinary approaches to topics such as meaning, ritual, performance, and practice will provide a framework for classical as well as contemporary explorations of bodily representation and experiences across a variety of cultural contexts. Prerequisite: Introduction to Cultural Anthropology

ANTHRO 329 The Imagery Of The American Indian In Film
This course will trace the imagery of the American Indian used by film makers through the years and how this has played a role in reinforcing certain inaccurate perceptions of American Indian cultural, social, and economic life. The course examines the sociological implications created by persistently showing misrepresented images of American Indians. The goal is to measure and compare the reality of American Indian life (values, traditions, and beliefs) with the images created by film makers from the early years of the 20th century to the present. Also cross listed as SOCIOL 325.
ANTHRO 331 Urban Anthropology
A course designed to apply anthropological methods to the study of various urban environments. The approach to the subject is comparative, seeking to spell out those features of the urban setting which vary from culture to culture as well as those which are common to all.

ANTHRO 339 American Indian Leaders: Past And Present
This course will examine the definition of leadership as it relates to American Indian issues. Consideration will be given to the nuances of leadership by examining the social, cultural, economic, and political situations that gave cause for particular individuals to assume roles of leadership. The course will compare and contrast the notions of leadership within American Indian ranks with those practiced by non-indian leaders. It will trace the evolving nature of leadership within tribal nations and American Indian communities from past to present, as well as looking at Indian leadership roles in time of war and peace. Lives of the major characters of American Indian historical record will be reviewed, such as Geronimo, Crazy horse, Sitting Bull, Osceola, Tecumseh, Pontiac, Black Hawk, Quannah Parker, and Captain Jack. Also cross listed as SOCIOL 326

ANTHRO 340R Social Change
Examines the key dimensions that bring about change in societies, including revolutions and evolutionary processes. Attention is given to the global context of social change, as well as the role of social actors and social movements. Crosslisted with (ANTH 340R or SOC 340R).

ANTHRO 341R The Anthropology Of Economic Institutions
Examines in a comparative perspective the social, cultural and political framework of economic activities. Emphasis is placed on socioeconomic systems and the contradictions they generate. Crosslisted with SOCIOL 341R.

ANTHRO 343 Societies And Cultures Of Latin America
A survey of emerging cultures and societies in Latin America; pre-history and geography; the Mayan, the Aztec and Incan civilizations; contemporary Indian, peasant and urban subcultures; the impact of forces such as migration, urbanization, peasant mobilization, and agrarian reform. Also offered as SOCIOL 343.

ANTHRO 346 Cultures Of The African Diaspora
This course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion.

ANTHRO 347 The American Indian Image: Stereotype Vs. Reality
This class will take a historical, sociological, and cultural approach to review how society at large views American Indians. The course will trace the origin and continued use of American Indian stereotyped views, and assess the sociological and psychological complications that result when judging Indians solely on stereotyped imagery. The course will review the historical content of American Indian life as portrayed in early plays, films, and newspaper accounts and compare these stereotyped images with the reality of American Indian life by providing a depiction of a series of historical events that will offer a more balanced and accurate consideration for American Indian life past and present. Also cross listed as SOCIOL 324.

ANTHRO 348 Latin American Immigrants & Refugees in the U.S.
The course is an introduction to the study of the culture and societies of U.S. citizens and immigrants of Latin American heritage living in the U.S. The course emphasizes recent anthropological as well as historical and cultural studies. Topics covered: ethnohistory, kinship, labor, intergenerational relations, gender transnationalism and immigration and cultural diffusion over successive generations.

ANTHRO 373 Anthropology of Religion
This course explores the ways anthropologist have gone about studying religion from the opening decades of the 20th century to present. The course introduces students to the diversity of human religious expression and experience through anthropological literature and to the diversity of anthropological expression especially as it has been revealed in social scientific studies of religious life. The course is designed to generate a critical dialogue about the special role that religion has played in the ongoing
ANTHRO 374 Anthropology of Childhood
This course explores how children's lives are shaped by cultural, economic, and political forces and relations. Drawing upon a range of case studies and disciplinary perspectives it will consider how and why children emerge as sites of contestation and debate, and it will examine the various ways in which the category and experience of childhood unfold in different soci-historical contexts. The main objective of the course is to better understand the social construction of childhood and use the study of childhood as a privileged window for exploring the articulation of cultural, economic and political relations within the context of contemporary global society.

ANTHRO 381 Archaeological Resources Management
This class examines contemporary issues managing archaeological resources. The class is intended for students seeking work in Cultural Resources Management (CRM); those already working CRM, or student anthropology, environmental studies, geology, geography, public administration and other fields likely to deal with archaeological and historical resources in a research or employment setting. This class does not require a background in archaeology. Cross-listed with Geology 407.

ANTHRO 382 Archaeological Field Survey Methods
This class offers instruction in the basic skills required to conduct field surveys in archaeology and other geosciences disciplines. In the classroom, students learn about the development of archaeology as a scientific discipline and how to recognize some of the basic field data sought by archaeologists. Students learn about mapping and land navigation techniques. The field phase of instruction includes visits to archaeological sites in the region. Cross-listed with Geology 408.

ANTHRO 383 Field School in Archaeology
This class offers students an opportunity to attend a field school in archaeology. Students will be taught how to: design archaeological research, set-up excavation, keep a wide range of excavation records, make maps and drawings, take photographs related to excavation problems, identify and recover a broad spectrum of artifact and faunal remains, collect samples for specialized analysis and use a wide range of excavations tools. This course will also introduce students to recording and analyzing excavated materials in the archaeological laboratory. Cross-listed with Geology 409.

ANTHRO 384 North American Prehistory
This class offers instruction in the archaeological survey of prehistoric North America from the Arctic to northern Mexico. The course outlines cultural developments within this region from the peopling of the Americas near the end of the last Ice Age to the arrival of Europeans over 10,000 years later. The diversification of Native American societies across this time span is examined in relation to social and environmental challenges, including the transformation of hunter-gatherer groups into chiefdoms and complex agricultural societies. Cross-listed with Geology 457. Offered: On Demand.

ANTHRO 385 Archaeology as Anthropology: The Development of Human Societies
This class examines the development of archaeology as a distinctive branch of anthropology, and archaeology's role in a centuries-long debate about the causes of cultural variation and the development of human societies. This class examines how the Enlightenment, colonialism, the geological discovery of Deep Time? and the Darwinian Revolution not only give rise to anthropology and archaeology, but launched an enduring debate about how and why we study cultural behavior. Cross-listed with Classics 370.

ANTHRO 386 Introduction to Prehistoric and Classical Archaeology
An introduction to archaeological research methods that traces human origins and cultural development from the earliest fossil evidence to the threshold of written history and civilization. This class emphasizes the evolutionary and cultural developments that allowed our ancestors to colonize the continents and develop lifeways involving hunting and gathering, farming and urbanism. Also cross-listed with HIST 400C and Clas 360.

ANTHRO 397 Independent Readings in Anthropology
Intensive readings in an area selected by the student with prior consultation with instructor. Prerequisite: Twelve hours of anthropology. On demand.

ANTHRO 414 Feminist Theories
This class introduces the major feminist theories and their primary authors over the last 200 years. The class takes both a historical view (beginning with two millenia of male-centered theories about women) and a conceptual approach (theories are grouped by common ground) and familiarizes the student with both the historical processes that necessitate feminist theories as well as with the breadth and depth of the historically and currently available scholarship. Prerequisite: Introduction to Women's Studies Offered: Winter Semester

ANTHRO 441 Globalization and Development
Focuses on issues of economic development, social stratification, political institutions, and political mobilization in societies
where colonialism provided the context for their long-term disadvantages in the international economic order. Specific attention is paid to the intersection of the international components that define the options and limits for societal development (e.g., market shifts, international institutions and contracts, foreign policies, and migration) and the distinct social, political and cultural implications of these factors for developing societies. Crosslisted with ANTHRO or SOCIOL 441.

**ANTHRO 441 Globalization and Development**
Focuses on issues of economic development, social stratification, political institutions, and political mobilization in societies where colonialism provided the context for their long-term disadvantages in the international economic order. Specific attention is paid to the intersection of the international components that define the options and limits for societal development (e.g., market shifts, international institutions and contracts, foreign policies, and migration) and the distinct social, political and cultural implications of these factors for developing societies. Crosslisted with ANTHRO or SOCIOL 441.

**Arabic (ARABIC)**

**ARABIC 110 Elementary Arabic I**
Fundamentals of the language, essentials of conversation, grammar, practical vocabulary, useful phrases, and the ability to understand, read and write simple classical Arabic. Fall.

**ARABIC 120 Elementary Arabic II**
Continuation of Arabic 110. Winter. Prerequisite(s): Arabic 110 or equivalent.

**ARABIC 211 Second Year Arabic I**
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: Arabic 120. Fall.

**ARABIC 221 Second Year Arabic II**
Continuation of Arabic 211.

**ARABIC 280 Special Intermediate Arabic Topics I**
Instruction of Arabic on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed. Restrictions: Permission of chair required

**ARABIC 290 Special Intermediate Arabic Topics II**
Continuation of Arabic 280. May not be repeated for credit. As needed. Restrictions: Permission of chair required

**Architectural Studies (ENV-DSN)**

**ENV-DSN 110 The Meaning Of Architecture**
Architecture is a visual and physical expression of civilization. This course will introduce to the student an understanding and appreciation of architecture and our built environment through a broad examination of cultural and aesthetic paradigms. The student will be informed of the historic legacy and value of architecture; how it impacts our society today and our daily lives. This course will employ slides, lectures, and text to familiarize the student with a select group of significant works of architecture of the western world. Local site visits may be required therefore transportation will be the student's responsibility.

**ENV-DSN 110 The Meaning Of Architecture**
Architecture is a visual and physical expression of civilization. This course will introduce to the student an understanding and appreciation of architecture and our built environment through a broad examination of cultural and aesthetic paradigms. The student will be informed of the historic legacy and value of architecture; how it impacts our society today and our daily lives. This course will employ slides, lectures, and text to familiarize the student with a select group of significant works of architecture of the western world. Local site visits may be required therefore transportation will be the student's responsibility.
ENV-DSN 201 Environmental Design Studio I
Foundation studies introducing the principles, processes and vocabularies of environmental design. Instruction in two and three dimensional visualization of objects and spaces. Instruction in the use of instrument-aided drawing, freehand drawing and model building to represent and communicate design ideas at different scales of observation. Prerequisite: Permission of department. Offered: Fall semesters.

ENV-DSN 201 Environmental Design Studio I
Foundation studies introducing the principles, processes and vocabularies of environmental design. Instruction in two and three dimensional visualization of objects and spaces. Instruction in the use of instrument-aided drawing, freehand drawing and model building to represent and communicate design ideas at different scales of observation. Prerequisite: Permission of department. Offered: Fall semesters.

ENV-DSN 202 Environmental Design Studio II
Continuation of ENV-DSN 201. Prerequisites: ENV-DSN 201 and permission of department. Offered: Winter semester.

ENV-DSN 202 Environmental Design Studio II
Continuation of ENV-DSN 201. Prerequisites: ENV-DSN 201 and permission of department. Offered: Winter semester.

ENV-DSN 203 Survey Of The Design Professions
Overview of the evolution of the design professions. Comparative study of the roles of the architect, interior architect, interior designer, landscape architect and planner; their working methods, collaborative endeavors, and interaction with consultants and specialists. Description of career paths, educational alternatives, licensure, and professional organizations. Offered: Fall

ENV-DSN 203 Survey Of The Design Professions
Overview of the evolution of the design professions. Comparative study of the roles of the architect, interior architect, interior designer, landscape architect and planner; their working methods, collaborative endeavors, and interaction with consultants and specialists. Description of career paths, educational alternatives, licensure, and professional organizations. Offered: Fall

ENV-DSN 248 Fundamentals of Architectural Technology
Instruction in the fundamentals of architectural technology with emphasis on the concepts and principles necessary for developing an integrated approach to building design. Permission of the department required.

ENV-DSN 248 Fundamentals of Architectural Technology
Instruction in the fundamentals of architectural technology with emphasis on the concepts and principles necessary for developing an integrated approach to building design. Permission of the department required.

ENV-DSN 250 History Of The Designed Environment I
This course will present an overview of the developments in architectural, urban, landscape and interior design which have had an impact on the physical environment from ancient times through the medieval up to the gothic period. A central objective of the course is to gain an understanding of why these developments occurred and how the needs and aspirations of a given time were manifested in physical form. Offered: Winter

ENV-DSN 250 History Of The Designed Environment I
This course will present an overview of the developments in architectural, urban, landscape and interior design which have had an impact on the physical environment from ancient times through the medieval up to the gothic period. A central objective of the course is to gain an understanding of why these developments occurred and how the needs and aspirations of a given time were manifested in physical form. Offered: Winter

ENV-DSN 251 History Of The Designed Environment II
This course will present an overview of the developments in architectural, urban, landscape and interior design which have had a consequential impact on the physical environment of the Western world from the Italian Renaissance (starting in the 15th century) up to the present day. Offered: Fall

ENV-DSN 251 History Of The Designed Environment II
This course will present an overview of the developments in architectural, urban, landscape and interior design which have had a consequential impact on the physical environment of the Western world from the Italian Renaissance (starting in the 15th
century) up to the present day. Offered: Fall

**ENV-DSN 252 History Of The Designed Environment III**
The history of the designed environment from the mid-18th century to the present. Offered: Fall semester

**ENV-DSN 301 Architectural Design Studio I**
Instruction in architectural design focusing on the application of elements and principles of form and space in design. Instruction in the use of techniques for visually representing design ideas. Prerequisites: ENV-DSN 202 Offered: Fall.

**ENV-DSN 302 Architectural Design Studio II**
Instruction in architectural design focusing on the synthesis of basic social, functional, technical, and aesthetic factors in design. Continued instruction in techniques for visually representing ideas. Prerequisite: ENV-DSN 301 Offered: Winter semester.

**ENV-DSN 347 Structural Systems In Architecture I**
Introduction to structure as a building system. Overview of contemporary structural systems and heir components, including wood, timber, steel, concrete, masonry, and hybrid structures. Discussion of building code requirements for structure, general guidelines for building structures, including appropriate application, and methods for schematic estimation of structural member sizing. Basic understanding of how gravity and lateral forces are propagated through a structural frame from load to building foundation. Prerequisites: MATH 110 & PHYSICS 210. Offered: Spring

**ENV-DSN 348 Structural Systems In Architecture I**
Introduction to statics: force analysis and the study of forces in equilibrium; principles of statics as applied to the study of simple elemental structures; the origin, the nature and the action of loads on structural systems. Instruction in the use of statics in the preliminary stages of building design. Prerequisites: MATH 110 & PHYSICS 210. Offered: Fall semester.

**ENV-DSN 413 Environmental Systems In Architecture I**
Instruction in bioclimatic and ecological design principles as a basis for architectural and landscape design: emphasis on passive solar heating and cooling and daylighting. Offered: Winter semester.

**ENV-DSN 413 Environmental Systems In Architecture I**
Instruction in bioclimatic and ecological design principles as a basis for architectural and landscape design: emphasis on passive solar heating and cooling and daylighting. Offered: Winter semester.

**ENV-DSN 449 Structural Systems In Architecture II**
Instruction in strength of materials focusing on the behavior of building materials under loading: their ability to resist deformation and failure. Instruction in sizing simple structural elements. Prerequisite: ENV-DSN 348. Offered: Winter semester.

**Art (ART)**

**ART 101 Topical Studies In Studio Art**
(A,B,C,D) This course provides students with an opportunity to explore offerings in a variety of fine arts media. No prerequisite. Does not meet baccalaureate requirements in the fine arts. Different sections of the course may be repeated.

**ART 101 Topical Studies In Studio Art**
(A,B,C,D) This course provides students with an opportunity to explore offerings in a variety of fine arts media. No prerequisite. Does not meet baccalaureate requirements in the fine arts. Different sections of the course may be repeated.

**ART 105 Introduction To Photography**
An introduction to the general practice of photography. This course is intended for non-majors. The course centers on the basic technical and aesthetic aspects of the medium. A fully adjustable digital camera is required.

**ART 105 Introduction To Photography**
An introduction to the general practice of photography. This course is intended for non-majors. The course centers on the basic technical and aesthetic aspects of the medium. A fully adjustable digital camera is required.

**ART 105 Introduction To Photography**
An introduction to the general practice of photography. This course is intended for non-majors. The course centers on the basic technical and aesthetic aspects of the medium. A fully adjustable digital camera is required.
ART 112 Foundation Drawing
This course focuses on developing skills and techniques of observational drawing. No previous drawing experience required.

ART 114 Foundation Digital Design
This introductory course on techniques and practical applications for digital arts, graphic design, and computer multimedia. Fulfills the College of Arts and Sciences computer competency requirement.

ART 116 Computer Animation
General techniques and practical application for computer animation. This course is intended for both studio majors and non-majors. It does not serve as a prerequisite for any advanced electronic art courses. Lectures, demonstrations, readings, discussions and application sessions.

ART 121 Foundation 2D Design
The principles of visual thinking with emphasis on color theory and perception of form and space. Prerequisite: None

ART 121 Foundation 2D Design
The principles of visual thinking with emphasis on color theory and perception of form and space. Prerequisite: None

ART 131 Foundation 3D Design
Introductory study in three-dimensional formal principles with emphasis on the aesthetic properties. Prerequisite: None

ART 131 Foundation 3D Design
Introductory study in three-dimensional formal principles with emphasis on the aesthetic properties. Prerequisite: None

ART 203 Introduction To Typography
The formal and applied aspects of typography are studied in the context of the design process, involving basic concepts of copyfitting, specification of type, layout, and the use of computer assisted design software. Prerequisites: Art 114 and Art 121 or permission of the instructor

ART 204 Digital Video and Motion Design I
This introductory digital video and motion design course is intended for studio majors. General techniques and practical application of animation, video, text and sound in the digital arts and graphic design fields are addressed. Lectures, demonstrations, readings, discussions and application sessions. Prerequisite: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 204 Digital Video and Motion Design I
This introductory digital video and motion design course is intended for studio majors. General techniques and practical application of animation, video, text and sound in the digital arts and graphic design fields are addressed. Lectures, demonstrations, readings, discussions and application sessions. Prerequisite: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 204 Digital Video and Motion Design I
This introductory digital video and motion design course is intended for studio majors. General techniques and practical application of animation, video, text and sound in the digital arts and graphic design fields are addressed. Lectures, demonstrations, readings, discussions and application sessions. Prerequisite: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 206 Photography I
An introduction to photography as a means of creative self-expression. The course centers on the technical and aesthetic aspects of the medium. A fully adjustable digital camera is required. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 206 Photography I
An introduction to photography as a means of creative self-expression. The course centers on the technical and aesthetic aspects of the medium. A fully adjustable digital camera is required. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.
ART 206 Photography I
An introduction to photography as a means of creative self-expression. The course centers on the technical and aesthetic aspects of the medium. A fully adjustable digital camera is required. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 212 Intermediate Drawing
Continuation of foundation drawing. Emphasis is on gaining technical facility with various drawing mediums and expanding conceptual approaches. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 218 Graphic Design I
A beginning level introduction to Graphic Design principles, such as layout, design, concept, basis design theory, graphic design production, and use of industry-level design software and tools. Prerequisites: Art 112, 114, 121, and 131 or permission of instructor.

ART 221 Painting I
Exploration of the visual language in paint with continued emphasis on color and design. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 224 Introductory Printmaking
An introduction to the process and technique of printmaking centering on metalplate printing. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 235 Digital Imaging I
This is an introductory course to the computer as a creative tool for the visual artist. Images will be digitized, enhanced and altered. Practical and ethical issues regarding digital image processing are explored. Various input and output options will be discussed. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

ART 244 Visual Tools For The Computer
Specific training in using software programs (such as Adobe Photoshop, Adobe Illustrator, Quark Express, etc.) for artists, architects, and graphic designers. Each section deals with a different program and thus the course may be repeated if the student signs up for a different section. Prerequisite: None.

ART 245 Digital Applications
This is an introductory class to software that has graphic and desktop applications. The course will deal principally with digital graphic software that is currently considered the industry standard. The class will also touch on other software that can have an impact on future computer applications pertaining to applied design. Through a variety of class projects/exercises, students will learn various software and how they interrelate. The class is open to all art students and general students. It will be a prerequisite for studio art students with a graphic design emphasis before entering advanced graphic design classes. (Course replaces visual tools, ART 244A, ART 244B, ART 244C which is a series of three one hour classes.)
ART 246 Digital Applications
This is an introductory class to software that has graphic and desktop applications. The course will deal principally with digital graphic software that is currently considered the industry standard. The class will also touch on other software that can have an impact on future computer applications pertaining to applied design. Through a variety of class projects/exercises, students will learn various software and how they interrelate. The class is open to all art students and general students. It will be a prerequisite for studio art students with a graphic design emphasis before entering advanced graphic design classes. (Courses replaces visual tools, ART 244A, ART 244B, ART 244C, which is a series of three one hour classes).

ART 300 Interdisciplinary Studies:Cluster Course Offerings I

ART 300CO Cluster Course: Nature And The Environment: Art And Aesthetics

ART 305 Photography II
An advanced course in which students develop a deeper understanding of personal interests, sensibilities and goals as they relate to producing and appreciating creative photography. A fully adjustable digital camera is required. Prerequisites: Art 206 or permission of art advisor.

ART 305 Photography II
An advanced course in which students develop a deeper understanding of personal interests, sensibilities and goals as they relate to producing and appreciating creative photography. A fully adjustable digital camera is required. Prerequisites: Art 206 or permission of art advisor.

ART 305 Photography II
An advanced course in which students develop a deeper understanding of personal interests, sensibilities and goals as they relate to producing and appreciating creative photography. A fully adjustable digital camera is required. Prerequisites: Art 206 or permission of art advisor.

ART 308 Lithography
Study of stone lithographic process. Prerequisite: ART 224.

ART 309 Intaglio
Advanced study of intaglio printing processes. Prerequisite: ART 224.

ART 310 Digital Video and Motion Design II
This intermediate to advanced level digital video and motion design course is a continuation of Art 204. This course is intended for studio majors; it addresses advanced techniques of video post-production and motion graphic design. Lectures, demonstrations, readings, discussions, and application sessions. Prerequisites: ART 204 or permission of art advisor. Art 206 and Art 235 recommended.

ART 310 Digital Video and Motion Design II
This intermediate to advanced level digital video and motion design course is a continuation of Art 204. This course is intended for studio majors; it addresses advanced techniques of video post-production and motion graphic design. Lectures, demonstrations, readings, discussions, and application sessions. Prerequisites: ART 204 or permission of art advisor. Art 206 and Art 235 recommended.

ART 310 Digital Video and Motion Design II
This intermediate to advanced level digital video and motion design course is a continuation of Art 204. This course is intended for studio majors; it addresses advanced techniques of video post-production and motion graphic design. Lectures, demonstrations, readings, discussions, and application sessions. Prerequisites: ART 204 or permission of art advisor. Art 206 and Art 235 recommended.

ART 311 Painting II
Painting in oil or acrylic on the intermediate level with continued emphasis on color. Prerequisites: Art 221.

ART 312 Figure Drawing I
A study of the structure of the human figure with emphasis on the dynamics of figure movement. Prerequisite: ART 212.

ART 313 Graphic Design I
Intermediate study of graphic design methodology and techniques, stressing a visual approach to problem solving in design, image making techniques, materials, and production processes standard to the industry. Prerequisites: Art 114, Art 121, and Art
203 or permission of the instructor.

**ART 314** Graphic Design Production  
Study of the Mechanical procedures and techniques used for the realization of graphic design production. Prerequisite: Instructor's permission.

**ART 322** Advanced Drawing  
Further development of technique and content. Emphasis is on forming and clarifying a personal voice. Prerequisite: ART 212

**ART 330** Fiber Art  
Introductory study in the history, techniques, and production of fiber art. Prerequisite: Art 231.

**ART 335A** Digital Imaging II  
This class will strengthen the competence and knowledge of digital imaging techniques. Research, conceptual and verbal abilities within digital image making will be explored. Students will apply new techniques to their personal interests in the studio arts. Prerequisite: Art 235 or permission of art advisor

**ART 335A** Digital Imaging II  
This class will strengthen the competence and knowledge of digital imaging techniques. Research, conceptual and verbal abilities within digital image making will be explored. Students will apply new techniques to their personal interests in the studio arts. Prerequisite: Art 235 or permission of art advisor

**ART 338** Graphic Design II  
Intermediate study of graphic design theory, methodology and techniques, stressing a visual approach to problem solving in design, image making techniques, materials, and production processes standard to the industry. Prerequisite: ART 218, 348, or permission of the instructor.

**ART 348** Introduction To Typography  
This course explores the formal and applied aspects of typography as tools for design and artistic expression. Focus is on how type relates to art, layout, and design. Both hand produced typography and computer assisted design software will be incorporated. Prerequisites: ART 112, ART 114, ART 121 AND ART 131, or permission of art advisor.

**ART 403** Advanced Typography  
A continuation of Art 348 Typography, this course looks at more sophisticated typographic practice, typographic design theory, and both traditional methods of typographic design and practice such as letterpress and hand type and computer/digital based typography including motion-and time-based media such as web-sites and multimedia. Prerequisite: ART 218, 348, and 338, which may be taken concurrently, or consent of instructor.

**ART 403** Advanced Typography  
A continuation of Art 348 Typography, this course looks at more sophisticated typographic practice, typographic design theory, and both traditional methods of typographic design and practice such as letterpress and hand type and computer/digital based typography including motion-and time-based media such as web-sites and multimedia. Prerequisite: ART 218, 348, and 338, which may be taken concurrently, or consent of instructor.

**ART 403** Advanced Typography  
A continuation of Art 348 Typography, this course looks at more sophisticated typographic practice, typographic design theory, and both traditional methods of typographic design and practice such as letterpress and hand type and computer/digital based typography including motion-and time-based media such as web-sites and multimedia. Prerequisite: ART 218, 348, and 338, which may be taken concurrently, or consent of instructor.

**ART 404** Digital Portfolio  
Digital portfolio production and marketing course for senior studio art majors. Lectures, demonstrations, readings, discussions, and application sessions. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

**ART 404** Digital Portfolio  
Digital portfolio production and marketing course for senior studio art majors. Lectures, demonstrations, readings, discussions, and application sessions. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.

**ART 404** Digital Portfolio  
Digital portfolio production and marketing course for senior studio art majors. Lectures, demonstrations, readings, discussions, and application sessions. Prerequisites: Art 112, Art 114, Art 121 and Art 131, or permission of art advisor.
ART 405 Art In Secondary School
An introduction to the special problems, procedures and materials associated with the art curriculum in the public schools. This course meets certification requirements in "Special Methods of Teaching Field." Prerequisites: The equivalent of senior standing in art plus permission of the instructor.

ART 406 Advanced Problems In Photography
This course provides students a forum in which the issues and techniques of contemporary photography can be investigated on a rather esoteric level. The format of the course allows for a mutual decision by the instructor and students, dictating which investigations will be pursued during that particular semester. Possible areas of investigation would include, but are not limited to, color photographic theory and practice, non-silver photographic techniques (e.g. Kwikprint, gum bichromate, cyanotype, Van Dyke Brown, etc.), hand coloring techniques, photo-collage, etc. Prerequisite: ART 305, or permission of instructor.

ART 411 Painting III
Painting on the intermediate level with a focus on experimentation and developing a personal visual language and expression. Prerequisites: Art 311.

ART 412 Figure Drawing II
A continuation of Figure Drawing I, Art 312. Drawing on the advanced level with study of the figure in environmental context. Prerequisite: ART 312 or ART 322.

ART 413 Graphic Design II
Advanced study in graphic design methodology and techniques, involving more intense project problem solving. Projects include visual communication strategies of a more advanced nature including newsletter, brochures, annual report, book, magazine and journalism spreads. Prerequisite: ART 313.

ART 421 Painting IV
Painting on the advanced level with supervised individual selection of technique and subject matter. Prerequisites: Art 411

ART 422 Advanced Drawing II
Continuation of Art 322. Prerequisite: Art 312 or 322.

ART 423WI Design Seminar
Capstone course for studio art majors with a focus on graphic design. Pertinent issues in practice, theory and history of design will be examined through selected readings, slide presentations and invited speakers. A research paper/presentation on a topic evolving from the discussions will be required. The course will also address resume and portfolio preparation for the design profession. This course is writing intensive. Successful completion of the WEPT test required prior to enrolling. Prerequisites: ART 313, ART 413 or permission of art advisor. Offered: Winter Semester Annually

ART 423WI Design Seminar
Capstone course for studio art majors with a focus on graphic design. Pertinent issues in practice, theory and history of design will be examined through selected readings, slide presentations and invited speakers. A research paper/presentation on a topic evolving from the discussions will be required. The course will also address resume and portfolio preparation for the design profession. This course is writing intensive. Successful completion of the WEPT test required prior to enrolling. Prerequisites: ART 313, ART 413 or permission of art advisor. Offered: Winter Semester Annually

ART 430 Graphic Design III
Advanced application of graphic design techniques to complex design problems. The course will stress individualized assignments and portfolio preparation. Prerequisite: ART 338, which may be taken concurrently, or consent of instructor.

ART 430 Graphic Design III
Advanced application of graphic design techniques to complex design problems. The course will stress individualized assignments and portfolio preparation. Prerequisite: ART 338, which may be taken concurrently, or consent of instructor.

ART 435P Visual Culture: logos, images, symbols, and advertising
In this guided self-study students will examine visual culture through imagery, objects, advertising, logos, and other symbols. The main objective of the course is to further the projects initiated in ART 436P. Students will implement ideas for real-life situations for logos, the web, and print design. Restrictions: Does not count towards Studio Art requirements. Concurrent enrollment in ART 436P is required.

ART 436P Introduction to Graphic Design and Desktop Publishing
Students will gain a basic understanding of two dimensional design, typography, and graphic design. Introductory skills in industry standard computer design software will be offered. Issues and techniques related to the filed of graphic design will be
discussed. Restrictions: Does not count towards Studio Art major requirements

**ART 437P Introduction to Digital Imaging and Computer Multimedia**
Students will acquire a basic understanding of lens-based image creation using still and video cameras. Introductory skills in industry standard multimedia software will be used. Issues and techniques related to the field of electronic media will be discussed. Restrictions: Does not count towards Studio Art major requirements

**ART 438P First Fridays: Guided Self-Study**
Students will be exposed to contemporary issues in art through readings, discussions, and audio-visual presentations. Various types of art will be viewed and experienced in professional art venues (galleries, museums, alternative spaces). Independent visual and written projects related to lectures and visits will be required. Restrictions: Does not count towards Studio Art requirements. Concurrent enrollment in ART 437P is required. Restrictions: Does not count towards Studio Art major requirements.

**ART 495 Technical Studies In Art**
With the permission of the department, an advanced student may pursue a technical investigation on a seminar or individual basis.

**ART 495A Technical Studies In Art: Papermaking**

**ART 498A Special Problems In Drawing**
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval.

**ART 498B Special Problems In Painting**
With permission of the department, an advanced student may pursue a selected subject in oil, acrylic, or watercolor painting on a group or individual basis. Acceptable for graduate credit with approval. May be repeated for credit.

**ART 498C Special Problems In Graphic Design**
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval.

**ART 498D Advanced Problems In Lithography**
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval.
for graduate credit with approval.

**ART 498L** Special Problems In Photography
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval.

**ART 498M** Special Problems In Electronic/Media
With permission of the Department, an advanced student may pursue selected projects in electronic media on a group or individual basis. Acceptable for graduate credit with approval. Prerequisites: Permission of Instructor.

**ART 498M** Special Problems In Electronic/Media
With permission of the Department, an advanced student may pursue selected projects in electronic media on a group or individual basis. Acceptable for graduate credit with approval. Prerequisites: Permission of Instructor.

**ART 498O** Special Problems In Graphic Design Internship
Advanced students are accepted into the production studios of participating graphic design companies in the metropolitan region as a training experience. Prerequisite: Permission of the department.

**ART 498O** Special Problems In Graphic Design Internship
Advanced students are accepted into the production studios of participating graphic design companies in the metropolitan region as a training experience. Prerequisite: Permission of the department.

**ART 498Q** Special Studies in Art: Internship
Advanced students gain invaluable practical experience in a professional setting in the field of art.

**ART 498Q** Special Studies in Art: Internship
Advanced students gain invaluable practical experience in a professional setting in the field of art.

**ART 499WI** Senior Seminar
Capstone course for studio majors in all media. Course addresses contemporary theoretical and practical issues in studio art practice, and prepares students for graduation. Multiple papers, class presentations, and a portfolio preparation are required. This course is writing intensive. Successful completion of the WEPT test required prior to enrolling. Prerequisites: Permission of art advisor. Offered: Winter Semester Annually

**ART 499WI** Senior Seminar
Capstone course for studio majors in all media. Course addresses contemporary theoretical and practical issues in studio art practice, and prepares students for graduation. Multiple papers, class presentations, and a portfolio preparation are required. This course is writing intensive. Successful completion of the WEPT test required prior to enrolling. Prerequisites: Permission of art advisor. Offered: Winter Semester Annually

**ART 499WI** Senior Seminar
Capstone course for studio majors in all media. Course addresses contemporary theoretical and practical issues in studio art practice, and prepares students for graduation. Multiple papers, class presentations, and a portfolio preparation are required. This course is writing intensive. Successful completion of the WEPT test required prior to enrolling. Prerequisites: Permission of art advisor. Offered: Winter Semester Annually

**Art History (ART-HIST)**
**ART-HIST 100** Topical Studies In Art History
This course consists of a series of lectures on selected subjects of European, American and Oriental art. No prerequisite. Does not meet baccalaureate requirements in fine arts. Does not meet departmental requirements for art or art history majors.

**ART-HIST 110** Introduction to the History of Visual Arts
This is an introduction to the history of art, with in-depth discussions of painting, sculpture, prints, and architecture. Students will be introduced to significant works from major historical periods; their cultural roles, style and composition, and the artistic processes involved in their creation. Emphasis is placed upon Western art history, with attention paid to important interactions with other world traditions, including the arts of Islam, Japan, and Africa. The comprehensive collections of the Nelson-Atkins Museum of Art contribute an important component to the course. ART-HIST 110 meets the college fine arts requirement. It does not count toward the art history requirement for departmental majors.

**ART-HIST 253** History Of The Designed Environment I, Ancient And Medieval
An overview of developments in architectural, urban, land and interior design which have shaped the physical environment of the
Western world from prehistory through the period known as the ""Romanesque."" Emphasis will be given to relationships between institutions, values and needs of different societies and the architectural forms produced by those societies. Prerequisite: None.

**ART-HIST 254 History Of The Designed Environment II, Late Medieval To Modern**
An overview of developments in architectural, urban, land and interior design which have had an impact on the physical environment of the Western World from the Gothic era to the beginning of the modern era. A central objective of the course is to gain an understanding of why these developments occurred and how the needs and aspirations of a given time were manifested in physical form. Prerequisite: None.

**ART-HIST 255 History Of The Designed Environment III, Modern (1750 To Present)**
An overview of developments in architectural, urban, land and interior design which have shaped the physical environment of the Western world during the Modern period. Issues to be explored include renewed interest in archaeology during the eighteenth century, shifts in patronage, the impact of new industrial materials and techniques, demands for an array of new building types, and dilemmas of expression throughout the modern era. Our concerns will broaden and become more global in scope when we examine the twentieth century. Prerequisite: None.

**ART-HIST 300CD Cc:The African Diaspora In The Arts And Culture**
This new cluster course examines aspects of African culture in the Diaspora: Africa, the Caribbean and certain parts of South and North America. Attention will be on charms, painting, sculpture, secret scripts, textiles, as well as religions and spirituality. Understanding African Diaspora culture also involves an analysis of historical and sociological movements, the interpretation of written culture, and the effects of Africa's response to colonialism. The transmission and transformation of African cultures will be addressed by a close investigation of visual and material culture, and the cosmological constructions of African peoples. Methodologies are from the Art History, Literature and Religious Studies. Restrictions: Sophomore or above.

**ART-HIST 300CF Cluster Course: African/African American Women And Creativity**

**ART-HIST 300CJ Cluster Course: Aestheticism In The Arts**
This cluster course will deal with aesthetic problems in the arts illustrated with specific examples in music, literature and the visual arts.

**ART-HIST 301 Survey Of Western Art: I**
A survey of ancient and medieval Western art. The course will begin with the great civilizations of the Mediterranean basin and consider the changes wrought by the introduction of Christianity and Islam. Study of the medieval era will include Romanesque and Gothic architecture through the 15th century, but will not include the beginnings of panel painting nor of independent sculpture. This course meets the college fine arts requirement.

**ART-HIST 302 Survey Of Western Art II**
A survey of late medieval, Renaissance and Baroque art in Europe. The course will start with the beginnings of panel painting, independent sculpture and the graphic arts in late medieval Europe, trace the coming of the Renaissance in architecture and the figurative arts, and conclude with the Baroque tradition. This course meets the college fine arts requirement.

**ART-HIST 303 Survey Of Western Art III**
A survey of European and American art and architecture, beginning with the origins of the Romantic movement in the 18th century and concluding with contemporary work. This course meets the college Fine Arts requirement.

**ART-HIST 315 The Arts Of African and New World Cultures**
This historical survey of ethnographic arts includes two diasporas: 1) African art and the influences of Africans on the arts of new world cultures (in Brazil, Surinam, Cuba, Haiti, and the United States) ;and 2) Meso-American art and the influence of Meso-Americans on the arts of the Native North American cultures. Emphasis is placed on interdisciplinary theoretical approaches drawn from Art History, Anthropology, and folklore, as well as the importance of geography and trade. These ethnographic arts are examined from aesthetic, political, religious, and economic perspectives, in comparison with arts made in these countries in
Western European traditions, including the cross-cultural impact that these various art traditions have on each other. This course satisfies the College requirement for a course in cultural perspectives. Cross-listed with Black Studies 315

**ART-HIST 315** The Arts Of African and New World Cultures  
This historical survey of ethnographic arts includes two diasporas: 1) African art and the influences of Africans on the arts of new world cultures (in Brazil, Surinam, Cuba, Haiti, and the United States) and 2) Meso-American art and the influence of Meso-Americans on the arts of the Native North American cultures. Emphasis is placed on interdisciplinary theoretical approaches drawn from Art History, Anthropology, and folklore, as well as the importance of geography and trade. These ethnographic arts are examined from aesthetic, political, religious, and economic perspectives, in comparison with arts made in these countries in Western European traditions, including the cross-cultural impact that these various art traditions have on each other. This course satisfies the College requirement for a course in cultural perspectives. Cross-listed with Black Studies 315

**ART-HIST 319** Asian Art  
The course will stress the elements that give an underlying unity to the arts as well as those qualities which distinguish the art of each country as unique.

**ART-HIST 402CC CC: Making the Modern in France: Dance, Art, Music, and Literature**  
This cluster course will take an interdisciplinary approach to understand the way modernism developed within the arts, with a focus on late-19th, early 20th-century France. Developments in literature, art, dance, and music and their interconnectedness to cultural and historical events will be highlighted and explored. Cross-listed with Foreign Languages 402CC and Conservatory 402CC.

**ART-HIST 415WI Romanticism**  
Art of the Romantic Era, principally in Europe, from c. 1790 to c. 1860. Consideration is given to the problems of patronage, criticism and stylistic influences. Prerequisite: ART-HIST 303 or permission of instructor and successful completion of the WEPT (effective FS93).

**ART-HIST 416WI Later 19Th Century Painting And Sculpture**  
From Realism through Post-Impressionism. A study of art, principally in Europe, from c. 1850 to c. 1905, with consideration given to factors influencing stylistic changes during this period. May be taken independently of ART 415. Prerequisite: ART-HIST 303 or permission of instructor and successful completion of the WEPT (effective FS93).

**ART-HIST 424 Early 20Th Century European Painting And Sculpture**  
A study of European painting and sculpture from c. 1900 to c. 1940. Prerequisite: ART-HIST 303 or permission of instructor.

**ART-HIST 426 Twentieth Century Painting**  
A study of major artists and stylistic changes in painting, beginning c. 1905. Consideration also given to the role of media and to drawings and prints during this period. Prerequisite: ART-HIST 303 or permission of instructor.

**ART-HIST 429WI American Painting And Sculpture**  
A study of the history of painting and sculpture, and other figurative arts, from earliest colonial times to the present. Emphasis will be placed on those artists who illuminate the major achievements in American art, and also the ongoing role played by European training and tradition. Prerequisite: ART-HIST 303 or permission of the instructor and successful completion of the WEPT (effective FS93).

**ART-HIST 439 Paris in the Age of the Rococo**  
In the early 18th century, Paris overtook Rome as the artistic center of Europe. We explore all of the visual arts during the vibrant "Rococo," the age of Watteau, Chardin, and Boucher. Prerequisites: Art-Hist 302 or permission of the instructor. Offered Spring.

**ART-HIST 440WI French Art: Renaissance And Baroque**  
A history of French art from the time of Louis XII through the Age of Louis XIV, with emphasis on painting and architecture. Prerequisite: ART-HIST 302 or permission of instructor and successful completion of the WEPT (effective FS93).

**ART-HIST 441WI Northern Baroque: The Age Of Rubens, Rembrandt And Wren**  
The arts of England and the Low Countries in the 17th and early 18th centuries. Emphasis on painting and the graphic arts in the Spanish and Dutch Netherlands and on architecture in England. Prerequisite: ART-HIST 302 or permission of instructor and successful completion of the WEPT (effective FS93).

**ART-HIST 443 Meso-American Art**  
The course will discuss 2500 years of the arts of ancient Mexico and Guatemala. Included is the rise of such important cultures as
the Olmec, Maya, and Aztec. Equal emphasis will be placed on the development of elaborate ceremonial centers such as Monte Alban and the Teotihuacan, as well as the ceramic traditions of the West and East coasts of Mexico. Prerequisite: ART-HIST 315 or permission of instructor.

ART-HIST 445 Northern European Art: 15Th And 16Th Centuries
A study of panel painting, sculpture and manuscript illumination in Flanders, France, Germany, and Spain from the Hundred Years' War through the Reformation. Special emphasis will be placed upon the stylistic and iconographic innovations of such major Northern artists as Claus Slater, Jan van Eyck, Jerome Bosch, Pieter Bruegel, Jean Fouquet and Albrecht Durer. Artistic developments will be presented within the context of changing economic, political, religious and social institutions of the period. Prerequisite: ART-HIST 302 or permission of instructor.

ART-HIST 447WI Italian Baroque: The Age Of Caravaggio, Bernini And Borromini
Painting, sculpture and architecture in Italy from the creation of the Baroque style in the late 16th century to the beginnings of the Barochetto era. Prerequisite: ART-HIST 302 or permission of instructor and successful completion of the WEPT (effective FS93).

ART-HIST 448WI Spanish Art: El Greco To Goya
A history of Spanish art from the later fifteenth century to the Napoleonic invasion. Prerequisite: ART-HIST 302 or permission of instructor and successful completion of the WEPT (effective FS93).

ART-HIST 450 15Th Century Italian Art And Architecture
An examination of the visual arts from the International Style and the Early Renaissance to the beginnings of the High Renaissance. Problems of patronage, artistic theory, the Antique, the role of art in humanist circles, and the effect of religious, political and economic developments on the arts will also be discussed. Prerequisite: ART-HIST 110 or ART-HIST 302 or permission of instructor.

ART-HIST 452 Greek Art And Architecture
A survey of Greek sculpture, vase painting, and architecture from the third millennium to the first-century B.C. Emphasis will be placed on the relationship of Minoan and Helladic aesthetics, and the connections between late Helladic and Geometric forms, and the nature and development of the classical and baroque styles. Prerequisite: ART-HIST110 or ART-HIST 301 or permission of instructor.

ART-HIST 455 History Of Photography
A survey of the history of photography as a pictorial art; technical developments and the interaction of photography with other arts will be included. Prerequisite: ART-HIST 303 or permission of instructor.

ART-HIST 456 The Painting And Sculpture Of China
Jade sculptures of the 14th-century B.C., the terra cotta army of the first emperor of China, Buddhist and secular sculptures from the Han through the Sung dynasties will be covered. The study of Chinese painting will include important new discoveries of paintings on silk dating from the third century B.C.; figure and landscape scrolls, and wall paintings from the fourth through 20th centuries A.D. The masterpieces in the Nelson-Atkins Museum will be examined in detail.

ART-HIST 461 Traditional and Contemporary Native American Arts
This course covers the history of traditional and contemporary Native North American arts, by examining cultural and aesthetic continuities between Meso-American and Native North American arts. We also explore how Native American arts reflect the history of North America, including influences from Europeans, and conclude with contemporary Native American artists and their incorporation of various global influences. Prerequisites: ART-HIST 315 or consent of the instructor.

ART-HIST 462 History of Modern Design
This course examines innovations in design, beginning with the Arts and Crafts movement in the 19th century, surveying all the major design trends of the twentieth century, and concluding with contemporary developments in the age of the computer. Prerequisite: ART-HIST 303 or permission of the instructor.

ART-HIST 463 Primitivism and Its Aftermath
This course explores one of the seminal movements of the modern era and its ramifications for the visual arts today. Class discussions will consider the complexities and contradictions of primitivism of its rejection of modernity. We will look at European artists' attempts at deliberate regression through their appropriations from archaic, folk, and non-western art traditions, from 1800-on, while also situating these creative endeavors within the cultural and political contexts of the period. Prerequisite: ART-HIST 303 or permission of the instructor.

ART-HIST 464 Modern Art & the Grotesque
This course explores how the grotesque shaped the history, practice and theory of art in the nineteenth and twentieth centuries.
The grotesque plays a major role in many modern styles, and its expressive possibilities encompass the capriccio, the carnivalesque and burlesque, the fantastic, and the abject and uncanny. Artists have incorporated the grotesque as a means to push beyond established boundaries, explore alternate modes of experience, and to challenge cultural and aesthetic conventions. Prerequisite: ART-HIST 303 or permission of the instructor.

**ART-HIST 473** Visual Arts Administration
This course on professional arts administration includes assignments in: copyright laws, database management, ethics issues, evaluation design, gallery museum management, grant writing and budgeting, public relations, resume design, tax laws, and website design and management. Students are required to learn relevant computer programs. This course is also open to music and theatre majors. Prerequisite: permission of instructor.

**ART-HIST 477** Contemporary Artists of the African Diaspora
This course examines cultural and aesthetic continuities between traditional and contemporary arts and artists in Africa and in the Americas, including the study of contemporary Africans whose cultures had the greatest influence in the Americas as well as contemporary African-American artists in Brazil, Cuba, Haiti, and the United States. Prerequisites: Art-Hist 315 or permission of the instructor.

**ART-HIST 479** From the Parthenon to the Altar of Peace
The course centers on the many different styles of Greek and Roman art from the fifth century B.C. to the early first century A.D. Attention is also paid to the political and literary forces behind its imagery. Three monuments serve as the pillars upon which the course rests: the Parthenon, Pergamon Altar, and the Ara Pacis. The lessons learned about style, the interaction of politics, literature, and art and the foibles of scholarship are intended to be applied to other fields of art history. Cross-listed with CLAS 479. Prerequisite: ART-HIST 301, CLAS 301 or permission of instructor.

**ART-HIST 480** Art Since 1945
An inquiry into the range and purpose of the visual arts since 1945. Taught in a seminar format. Prerequisite: Permission of Department Advisor or instructor of the course.

**ART-HIST 482** Scope & Methods Of Art History
An exploration of the discipline of art history, including theoretical issues, guiding questions and problems, diverse approaches (historical and current), and research tools. The undergraduate capstone course for art history majors. Prerequisites: Senior standing and permission of undergraduate adviser.

**ART-HIST 497A** Special Studies In Medieval/Renaissance Art
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval.

**ART-HIST 497B** Special Studies In Baroque/Rococo Art
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval.

**ART-HIST 497C** Special Studies In 19Th- And 20Th-Century Art
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval.

**ART-HIST 497D** Special Studies In American Art And Architecture
With the permission of the department, an advanced student may pursue a selected subject on a seminar or individual basis. Acceptable for graduate credit with approval.

**ART-HIST 497E** Special Studies In Art Museum
Selections from the permanent collections and loan exhibitions in the Nelson-Atkins Museum are studied with attention to historical, aesthetic and technical considerations. Prerequisites: Junior standing and at least nine hours of art history.

**ART-HIST 497F** Special Topics In Asian Art
With the permission of the department, an advanced student may pursue a selected subject on a seminar or individual basis. Acceptable for graduate credit with approval. Prerequisite: ART-HIST 319 or permission of instructor.

**ART-HIST 497H** Sp St In The Art Of African, Oceanic, And New World Cultures
With permission of the department, an advanced student many pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval.
ART-HIST 497J Special Studies In Ancient Art
An advanced student may pursue a selected subject on seminar or tutorial basis. Acceptable for graduate credit with approval. Prerequisite: Permission of Department.

ART-HIST 497J Special Studies In Art

ART-HIST 497Q Special Studies in Art History: Internship
Advanced art history students gain invaluable practical experience in a professional setting in the field of art. Prerequisite: Permission of the department.

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Arts & Sciences (A&S)
A&S 100 Methodologies In Liberal Arts & Sciences: Theories & Application
This three hour course is designed for freshmen and transfer students, to be taken during their first semester of study at UMKC. The curriculum provides students an introduction to the major disciplines and methodologies of the liberal arts and sciences (the humanities, social sciences, and sciences), including sessions on choosing majors and careers. Additional emphases will include learning to use the library, writing and computational skills, oral presentations, cultural diversity, stress management, and study strategies.

A&S 103A Critical Thinking In The Arts And Humanities
This 3 hour course is designed to be taken in conjunction with entry level courses in Arts and Sciences disciplines. The course is designed to enhance students' critical thinking and intellectual capacity, communication skills, and life long learning strategies. Assignments and problem solving activities in the course focus on developing thinking in the disciplines through interactive class sessions, experiments, and problem solving applications. The course is intended to be taught concurrently with a departmental course offered in the Video Supplemental Instruction model. Numerous additional assignments and activities enable students to both succeed in the departmental course and develop transferable cognitive skills at the same time. Credit and grades for the Arts and Sciences 103 course are based on a series of separate assignments specifically designed to enable students to succeed academically in the current and subsequent semesters. A&S 103 assignments would vary according to the discipline course it is linked with, but would include numerous supplemental readings, writing and problem solving activities done individually and in groups/teams. Class attendance and participation are required. Only one of the A&S 103 abc sequence may apply toward graduation requirements. Offered: Every Semester.

A&S 103B Critical Thinking In The Social Sciences
This 3 hour course is designed to be taken in conjunction with entry level courses in Arts and Sciences disciplines. The course is designed to enhance students' critical thinking and intellectual capacity, communication skills, and life long learning strategies. Assignments and problem solving activities in the course focus on developing thinking in the disciplines through interactive class sessions, experiments, and problem solving applications. The course is intended to be taught concurrently with a departmental course offered in the Video Supplemental Instruction model. Numerous additional assignments and activities enable students to both succeed in the departmental course and develop transferable cognitive skills at the same time. Credit and grades for the Arts and Sciences 103 course are based on a series of separate assignments specifically designed to enable students to succeed academically in the current and subsequent semesters. A&S 103 assignments would vary according to the discipline course it is linked with, but would include numerous supplemental readings, writing and problem solving activities done individually and in groups/teams. Class attendance and participation are required. Only one of the A&S 103 abc sequence may apply toward graduation requirements. Offered: Every Semester.

A&S 103C Critical Thinking In The Natural Sciences And Mathematics
This three hour course is designed to be taken in conjunction with entry level courses in Arts & Sciences disciplines. The course is designed to enhance students' critical thinking and intellectual capacity, communication skills, and life long learning strategies. Assignments and problem solving activities in the course focus on developing thinking in the disciplines through interactive class sessions, experiments, and problem solving applications. The course is intended to be taught concurrently with a departmental course offered in the Video Supplemental Instruction model. Numerous additional assignments and activities enable students to both succeed in the departmental course and develop transferable cognitive skills at the same time. Credit and grades for the Arts and Sciences 103 course are based on a series of separate assignments specifically designed to enable students to succeed academically in the current and subsequent semesters. A&S 103 assignments would vary according to the discipline course it is linked with, but would include numerous supplemental readings, writing and problem solving activities done individually and in groups/teams. Class attendance and participation are required. Only one of the A&S 103 abc sequence may apply toward
graduation requirements. Offered: Every Semester.

**A&S 110 Successful Research: Making Sense Of The World Of Information**
Do you know what you don't know? Find out in this course as we learn and discuss many of the common things you are expected to know to succeed in college, including the importance of discovering, understanding, analyzing, and using ideas and information in order to achieve academic success and genuine learning. You will learn how to ask meaningful questions, understand the structure and content of information resources, evaluate information, and use information resources as learning tools. The course is not geared to any specific discipline, but is core to success in any discipline. The course is open to all students, but is most beneficial when taken early in a student's academic career.

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**A&S 160 Wine And Civilization**
Geography of wine growing; the anatomy and physiology of the grapevine; the sociological forces of alcohol in American culture; wine and classical culture; economic aspects of wine and wine growing.

**A&S 170 Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

**A&S 170C Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

**A&S 200 British Life And Culture**
A survey of British history and culture from Roman times to the present day. The course includes such topics as British education, the legal system, the economic system, the Common Market, the development of working class movements such as Trade Union Councils, pictorial arts in Britain, dramatic arts, British music, and contemporary communications. The course is taught with lectures from British authorities in the various fields, discussions with lecturers and local faculty, and field trips to places associated with the weekly lectures. Grade for the course is determined by a combination of papers and exams. Offered under the Missouri-London Program in London. Each semester.

**A&S 205 Contemporary Europe**
An examination of selected political, cultural, economic and social forces shaping Europe today and of how they are related to Europe's past. The course is taught in Europe and employs field trips, lectures by European authorities on the various topics and lectures by the accompanying faculty member. Grades determined by a combination of papers and exams. Summers or Interim.

**A&S 206 Contemporary Asia**
An examination of selected political, cultural, economic and social forces shaping Asia today and of how they are related to Asia's past. The course is taught in Asia and employs field trips, lectures by Asian authorities on the various topics and lectures by the accompanying faculty member. Grades determined by a combination of papers and exams. Summers or Interim.

**A&S 207 Contemporary Latin America**
An examination of selected political, cultural, economic and social forces shaping Latin America today, and of how they are related to Latin America's past. The course is taught in Latin America and employs field trips, lectures by Latin American authorities on the various topics, and lectures by the accompanying faculty member. Grades determined by a combination of papers and exams. Offered: Summers or Interim.

**A&S 208 Contemporary World Cultures**
An examination of societies and cultures around the world. Students visit one or more countries, where they go on field trips, meet with local experts and students, and learn by studying and doing. Grades are determined by written assignments and practical performance. Offered: Summers or Interim.

**A&S 210 Cross-Cultural Interaction: Experience & Understanding**
This course focuses on the social and cultural context of interactional patterns. U.S. and international students are paired in academic activities to encourage mutual understanding and self-awareness. They will draw on a variety of resources and learning modalities to examine aspects of their own and one another's societies, cultures, religions, and family relations. Making use of intercultural theories, students will reflect upon and explore cultural myths and stereotypes and develop a general understanding
of cultural similarities and differences. Offered: Fall, Winter

**A&S 210 Cross-Cultural Interaction: Experience & Understanding**
This course focuses on the social and cultural context of interactional patterns. U.S. and international students are paired in academic activities to encourage mutual understanding and self-awareness. They will draw on a variety of resources and learning modalities to examine aspects of their own and one another's societies, cultures, religions, and family relations. Making use of intercultural theories, students will reflect upon and explore cultural myths and stereotypes and develop a general understanding of cultural similarities and differences. Offered: Fall, Winter

**A&S 240 Analysis Of Medical Terminology**
Analyze the structure of medical words and apply this to basic anatomy, physiology and disease processes of the human body, stressing spelling and pronunciation. Offered: Fall and Winter

**A&S 280A Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

**A&S 280P Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

**A&S 300CF Cluster Course: African/African American Women And Creativity**

**A&S 304CM Cluster Course: Body Images In Medicine And The Arts**
Open to all students, this course focuses on the human body as an object of study in the history and practice of medicine. The class identifies a number of key issues which affect the attitudes that contemporary physicians often have about their patients based upon prevalent attitudes toward the human body in our society. Societal values which shape our ideas about gender, physical appearance, cosmetic surgery, obesity, and genetic abnormalities will be the focus of determining the extent to which these issues may actually affect the education of physicians and choices of medical treatment. The course examines the evolution of these values historically through works of art and recurring themes in literature. The course is interdisciplinary, involving lectures in contemporary medicine, the history of medicine, the history of art, and literature. It satisfies current baccalaureate requirements for interdisciplinary coursework in the humanities. The course will not count toward required courses for the major in art, art history, literature or history. Prerequisite: Junior standing. Offered: Summer 1994.

**A&S 305 Ethics In America: The View From The Heartland**
This interdisciplinary course brings national and local specialists together through the media of television case study and personal dialogues for an exploration of the ethical issues facing Americans today. Problems of the corporate world, of academe, of law, of medicine, of media and of the military will be subjected to analysis. With the assistance of experts from the faculty and the community, students will create a paradigm for ethical decision making. Prerequisites: PHILOS 210, PHILOS 222 or consent of the instructor or Foundations of Social Science. Offered: On demand.

**A&S 310 Cross-Cultural Interaction II: Social Relations**
This course will match international students with U.S. students to prepare them to interact more effectively in multilingual and/or intercultural settings. Students learn through readings on cultural theory and cultural relations, in-class small group activities, discussions and lectures, how issues of identity, such as age, sexual orientation, and ethnicity; impact cross-cultural interaction. Papers written for this course will help students integrate theory with previous experience, leading to an understanding of oppression in cross-cultural interaction. This course is a continuation of A&S 210: Cross-Cultural Interaction: Experience and Understanding, which is a prerequisite. Prerequisite: A&S 210 Offered: Fall, Winter

**A&S 334 Introduction To African American Studies**
This course provides an introduction to the contexts, theories, and methodologies that undergird African American studies. In addition to substantial time spent covering particular research skills and resources, students will also be introduced to African American culture and the issues related to African American studies from several perspectives: history, literature, sociology, communication studies, and the like. Influences and perspectives from Africa, the Caribbean and South America will also be covered. The course will thus provide a broad background in African American culture and history, an introduction to the methodologies of several disciplines, and discussion of particular contemporary and historical issues such as slavery, segregation and integration, the Civil Rights Movement, Pan-Africanism, Afrocentrism, and current political debates. Prerequisite: None. Offered: Once a year.

**A&S 341 Union Leadership and Administration**
This course focuses on the roles and challenges of union leadership in a changing environment. Topics include the union leaders' role as a representative, organizer and educator as well as administrative responsibilities within the union and the relationship with enterprise management in both adversarial and participatory situations. Options for leadership styles and organizational
models will be discussed and explored in both theory and practice. Leaders will develop their skills of motivation, speaking, strategic planning and managing complex campaigns and diverse organizations. This course is part of the Certificate Program in Labor Studies and is offered on the University of Missouri Interactive Video Network at UMKC, UMSL, and UMC.

A&S 350 Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

A&S 350 Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

A&S 350A Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

A&S 350E Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

A&S 350K Special Topics

A&S 350L Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

A&S 350S Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

A&S 365P Introduction To Substance Abuse Counseling: Theory And Practice
This course will introduce the student to the problems of substance abuse and the methods/techniques used in treatment. The course will explore theories of personality and belief systems of the chemically dependent or alcoholic individual. The course will also review the impact of the disease on the family system

A&S 400A Special Readings/Topics

A&S 400A Special Readings/Topics

A&S 400B Special Readings/Topics

A&S 400B Special Readings/Topics

A&S 400C Special Readings/Topics

A&S 400D Special Readings/Topics

A&S 400E Special Readings/Topics

A&S 400E Special Readings/Topics
A&S 400F Special Readings/Topics

A&S 400F Special Readings/Topics

A&S 400G Special Readings/Topics

A&S 400G Special Readings/Topics

A&S 400H Special Readings/Topics

A&S 400H Special Readings/Topics

A&S 400I Special Topics

A&S 400I Special Topics

A&S 400J Special Readings/Topics

A&S 400K Special Readings/Topics

A&S 400L Special Readings/Topics

A&S 400M Special Readings/Topics

A&S 400N Special Readings/Topics

A&S 400PD Special Readings/Topics

A&S 400RR Special Readings/Topics

A&S 400SA Special Readings/Topics

A&S 400SB Special Readings/Topics

A&S 400SS Special Readings/Topics

A&S 405 Contemporary Europe
An in-depth examination of selected political, cultural, economic and social forces shaping Europe today and of how they are related to Europe's past. The course is taught in Europe and employs field trips, lectures by European authorities on the various topics and lectures by the accompanying faculty member. Grades determined by a combination of papers and exams. Prerequisite: Upper level or consent of instructor. Offered: Summers or Interim.

A&S 406 Contemporary Asia
An in-depth examination of selected political, cultural, economic and social forces shaping Asia today and of how they are
related to Asia's past. The course is taught in Asia and employs field trips, lectures by Asian authorities on the various topics and lectures by the accompanying faculty member. Grades determined by a combination of papers and exams. Prerequisite: Upper level or consent of instructor. Offered: Summers or Interim.

A&S 407 Contemporary Latin America
An in-depth examination of selected political, cultural, economic and social forces shaping Latin America today and of how they are related to Latin America's past. The course is taught in Latin America and employs field trips, lectures by Latin American authorities on the various topics and lectures by accompanying faculty member. Grades determined by a combination of papers and exams. Prerequisite: Upper level or consent of instructor. Offered: Summers or Interim.

A&S 419 Natural Sciences For Elementary Schools I
Selected topics from the natural sciences, their development and application for teaching in elementary school. Lectures, demonstrations, experiments and discussions. Intended for teachers in elementary schools. (This course will not be accepted for satisfaction of the Natural Science Area requirement of the Arts and Science general degree requirements).

A&S 420 Literature: A Healing Art
The course provides an opportunity for students to read and learn about literature, both prose and poetry, which demonstrates the importance of life stories in fostering communication between people. Through this study literature will come to be viewed as a healing art: healing physicians, patients and writers alike. Prerequisite: Junior standing. Offered: For one month, twice each year: September, March.

A&S 429 Natural Sciences For Elementary Schools II
Selected topics from the natural sciences, their development and application for teaching in elementary school. Lectures, demonstration, experiments and discussions. Intended for teachers in elementary schools. (This course will not be accepted for satisfaction of the Natural Science Area requirement of the Arts and Science general degree requirements). Fall.

A&S 439 Natural Sciences For Elementary Schools III
Selected topics from the natural sciences, their development and application for teaching in elementary schools. Lectures, demonstrations, experiments and discussions. Intended for teachers in elementary school. (This course will not be accepted for satisfaction of the Natural Science Area requirement of the Arts and Science general degree requirements). Winter.

A&S 452 Images Of The Family In Art And Literature
An application of the skills and knowledge gained from the companion weekend and/or weekday courses in this block by means of instructor-approved and guided independent study projects of the student's own individual or small group choice, focusing on images of the family in literature and art. Each student must select and present four projects (one on each of following faith cultures-Christianity/Judaism, Islam, and one on a topic of their choice) in written, oral and/or audio-visual media. Students meet in groups and individual sessions with the instructors of this block.

A&S 490B Special Topics

A&S 490C Special Topics

A&S 490D Special Topics

A&S 490E Special Topics

A&S 490F Special Topics

A&S 490HA Special Topics

A&S 490L Special Topics

A&S 490L Special Topics
A&S 490P Special Topics

A&S 490PA Special Topics
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only.

A&S 490PB Special Topics
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only.

A&S 490SA Special Topics

A&S 490SB Special Topics

A&S 490W Special Topics

A&S 491 International Internship
Students may participate in structured international internships under the joint supervision of employer and faculty member. They must carry out significant professional responsibilities and whatever additional assignments are determined by the faculty supervisor. The number of credit hours varies with the length of the professional experience. Prerequisite: Junior level or above or consent of instructor. Offered: Every semester.

A&S 492 Field Practicum In Aging
Students spend 180-480 contact hours in a field placement with supervision in a community agency or organization which services or advocates for older persons, and keep a journal documenting and reflecting on the practicum activities and experiences particularly as they relate to gerontological theory and research. Offered: WS, SS, FS Restrictions: Written consent of instructor required.

A&S H100 Methodologies In The Liberal Arts & Sciences: Theories & Apps
This three hour course is designed for freshmen and transfer students, to be taken during their first semester of study at UMKC. The curriculum provides students an introduction to the major disciplines and methodologies of the liberal arts and sciences (the humanities, social sciences, and sciences), including sessions on choosing majors and careers. Additional emphases will include learning to use the library, writing and computational skills, oral presentations, cultural diversity, stress management, and study strategies.

Black Studies (BLKS)

BLKS 101 Introduction to Urban Studies
Introduction to Urban Studies is a lecture and discussion course that provides the undergraduate student with an overview of the interdisciplinary field of urban studies. The student who successfully completes this course will have a broad understanding of the major issues, theories, key concepts and vocabulary, basic methods, and prominent scholars in urban studies. We will explore current events of relevance, including the opportunities and problems facing major cities in the United States, especially Kansas City and New Orleans.

BLKS 201 Global Systems and the Origins of Black American Culture and Institutions
This multi-disciplinary course examines global capitalism, European contact with Africa, the development of the African Diaspora, and the origins of Black American institutions and culture. Applying a Black studies perspective, the course explores such themes as cultural and gendered oppression, institutional destabilization, economic dislocation, liberation struggles, and creative impulses and aesthetics.

BLKS 302 Conceptual and Theoretical foundations in African American Studies
This course will provide an in-depth examination of the theoretical and conceptual parameters of African American studies. We will study the evolution of the field, key scholars and creative intellectuals, and seminal categories of thought.

BLKS 315 The Arts of African and New World Culture
The historical survey of ethnographic arts includes two diasporas: 1) African art and the influences of Africans on the arts of new world cultures (in Brazil, Surinam, Cuba, Haiti, and the United States); and 2) Meso-American art and the influence of Meso-Americans on the arts of the Native North American cultures. Emphasis is placed on interdisciplinary theoretical approaches drawn from Art History, Anthropology, and folklore, as well as the importance of geography and trade. These ethnographic arts are examined from aesthetic, political, religious, and economic perspectives, in comparison with arts made in these countries in
Western European traditions, including the cross-cultural impact that these various art traditions have on each other. This course satisfies the College requirement for a course in cultural perspectives. Cross-listed with Art-Hist 315.

BLKS 320 Critical Health Issues in Black Communities
Beginning with the African context and the opposition of chattel slavery, this course examines social, cultural, and historical factors affecting the health status of African Americans to the present era. It explores a variety of health-related issues including the interplay between environment, biology, and culture; folk and popular health practices; structured inequality and oppression; lifestyle, beliefs and values; and the organization and delivery of health care. Moreover, this course moves well beyond the idea that medical care is its presence, absence, or quality-is the singular or most critical factor determining the health of a people, community, or society. It reveals the importance of social phenomena in disease resistance and health promotion. Historical shifts from the prominence of infectious to chronic diseases; the implications to health of chattel slavery, sharecropping, segregation, poverty, and structured inequality; the relationship between psychosocial factors and disease, i.e. destabilized social settings that compromise resistance to disease; environmental racism; and the health status of African Americans as it relates to the organization of work, family structure and function, religious beliefs, the organization of medical care, lifestyle, consumer manipulation, and post-industrial society are major issues addressed by the course.

BLKS 321 The Black Family and Male-Female Relationships
This course examines the historical evolution and current status of the African American family in the United States. Utilizing the African experience as its starting point the course conveys a broad understanding of the role of the family in human survival and progress. We investigate such issues as male-female relationships, sexual practices, dating, marriage, single parenting, the education and socialization of children, and so on. We also examine an array of social and economic issues, including institutionalized inequality, that affects the viability of today's African American family.

BLKS 325 African American Business Development
This course investigates the various challenges to African American business development and entrepreneurship on the United States. We study the lives of successful, pioneering African American businesswomen and men in order to assess how they managed to transcend the barriers of racism and structured inequality. We explore why certain kinds of enterprises emerged among African Americans and why others did not, and we scrutinize the traditional business problems for African Americans of capitalization distribution market penetration, and wealth creation.

BLKS 331 African American Literature I
This course provides a survey of African American literature from its beginnings to the Harlem Renaissance of the 1920s and 1930s. Areas of interest will include abolitionist literature (especially Slave Narratives), turn-of-the-century literature and the Harlem Renaissance. This course will examine any or all of the following literary forms: fiction, poetry, drama, autobiography and essay. It will view African American literature in its historical and cultural contexts. Cross-listed with English 331.

BLKS 332WI African American Novel
This course will examine the African American novel in the 19th and 20th centuries; the emphasis will be on the period from the 1920s to the present. The novels will be examined in their historical and cultural contexts. Cross-listed with English 332WI.

BLKS 333 African American Literature II
A survey of African American literature from its beginnings to World War I. This course will cover a range of authors, several genres, and culture forms, which may include fiction, poetry, drama, autobiography, essay, oral, contrat and/or slave narratives, folklore, and songs. Cross-listed with English 333.

BLKS 334 From Field Shout to Hip Hop: African American Poetic Traditions
This course examines the development of African American poetry from its early forms as field shouts, ballads, and blues to present forms including spoken word and hip hop. Includes authors such as Phillis Wheatley, Paul Lawrence Dunbar, Langston Hughes, Gwendolyn Brooks, Tupac Shakur, and Jessica Care Moore.

BLKS 335 Stages Toward Freedom: African American Dramatic Traditions
This course explores the development of African American dramatic traditions from the eighteenth century through the Harlem Renaissance Black Arts Movement, to current postmodernism. Includes authors such as W.W. Brown, Zoran N. Hurston, Amiri Baraka, Sonia Sanchez, August Wilson, Suzan-Lori Parks.

BLKS 337 The Civil Rights Movement in African American Literature
This course examines how African American literature shaped ideas about freedom, rights, citizenship and race in the civil rights movement. It draws on a variety of literary forms-speeches, essays, autobiographies, fiction, drama, poetry and film-to explore the movement's impact on communities and cultures as well as its various debates and competing visions.

BLKS 403WI Writing for African American Studies
This course instructs students in how to produce advanced knowledge in the field of African American studies. It provides
training in the construction of quality research papers for graduate, scholarly, and professional work and exposes students to a wide array of scholarly journals, databases, and authoritative resources in African American studies. Each time the courses taught, students will develop their research around a specific topic defined by the instructor.

**BLKS 404 Research Seminar**  
This course introduces the logic, theory, and techniques of empirical research and applies them to African American Studies. It exposes students to a variety of research approaches in order to examine their utility for producing knowledge within the field.

**BLKS 480 Special Topics/Seminar**  
In-depth exploration of special topics in Black Studies. When available, topics will be announced prior to registration. Course may be repeated for up to six credit hours. Offered: On Demand

**BLKS 490 Directed Study/Research**  
Individual research and learning projects supervised by a faculty member. Course may be repeated for up to six credit hours. Offered: On Demand

**BLKS 490 Directed Study/Research**  
Individual research and learning projects supervised by a faculty member. Course may be repeated for up to six credit hours. Offered: On Demand

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**Chemistry (CHEM)**

**CHEM 111 Physical Basis Of Chemistry**  
An introductory course in the basic principles applicable to chemistry for students who intend to take but are not adequately prepared to take Chemistry 211. The emphasis is on quantitative relationships and problem solving.

**CHEM 115 Elements Of Chemistry I**  
A one-term course in general chemistry with special emphasis on organic chemistry and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 115L. Three hours of lecture each week, one hour of discussion each week. Fall, Winter.

**CHEM 115L Elements Of Chemistry, Laboratory I**  
A one-term course in general chemistry with special emphasis on organic chemistry and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 115. One three hour laboratory period each week. Fall, Winter.

**CHEM 160 Chemistry, Society, And The Environment**  
This course is intended to offer a survey of chemical and scientific concepts surrounding current issues. The emphasis will be on the application of fundamental chemical knowledge to allow a full understanding of these issues in the context of currently known facts and theories. Through classroom discussion and application of the scientific method, the ramifications of the issues will be examined. Topics will include pollution, the importance of the chemical industry, its responsibilities to society, and other items of current scientific and environmental interest.

**CHEM 160 Chemistry, Society, And The Environment**  
This course is intended to offer a survey of chemical and scientific concepts surrounding current issues. The emphasis will be on the application of fundamental chemical knowledge to allow a full understanding of these issues in the context of currently known facts and theories. Through classroom discussion and application of the scientific method, the ramifications of the issues will be examined. Topics will include pollution, the importance of the chemical industry, its responsibilities to society, and other items of current scientific and environmental interest.

**CHEM 160L Laboratory For Chemistry, Society, And The Environment**  
This course is offered in support of CHEM 160. It will consist of field activities, experiments, and demonstrations to reinforce the concepts and ideas presented in that course.

**CHEM 180P Basic Chemistry**  
A one-semester survey of basic chemistry including: atomic structure, the periodic table, chemical bonding, chemical reactions, and selected topics from organic, polymer and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 181P. Prerequisite: College Algebra or equivalent. This course is equivalent to CHEM 115.

**CHEM 181P Experimental Basic Chemistry**  
A demonstration/laboratory course designed to support and illustrate the concepts presented in Chemistry 180P. A terminal
course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 180P. Prerequisite: College Algebra or equivalent. This course is equivalent to CHEM 115L.

CHEM 182P Special Projects In Chemistry
An independent study course consisting of library work and field work designed to exemplify various applied aspects of chemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 180P. Prerequisite: College Algebra or equivalent.

CHEM 206 Human Nutrition
Introduction to nutrition for health and wellness and the use of chemical energy in the breakdown and synthesis of biomolecules. Nutrition as it applies to a variety of life situations from infancy to older adults. Learning encompasses elements of anatomy and physiology related to nutrition and health.

CHEM 211 General Chemistry I
Stoichiometry, gas laws, thermochemistry, atomic structure, molecular shapes and bonding theories. Prerequisites: or corequisite Math 110 or equivalent Restrictions: corequisite CHEM 211L Offered: Each Term

CHEM 211 General Chemistry I
Stoichiometry, gas laws, thermochemistry, atomic structure, molecular shapes and bonding theories. Prerequisites: or corequisite Math 110 or equivalent Restrictions: corequisite CHEM 211L Offered: Each Term

CHEM 211L Experimental General Chemistry I
Introduction to the laboratory techniques used in studying the chemical properties of substances. Some quantitative techniques are included. Prerequisites: Math 110 or equivalent Restrictions: corequisite CHEM 211L Offered: Each Term

CHEM 211L Experimental General Chemistry I
Introduction to the laboratory techniques used in studying the chemical properties of substances. Some quantitative techniques are included. Prerequisites: Math 110 or equivalent Restrictions: corequisite CHEM 211L Offered: Each Term

CHEM 212L Experimental General Chemistry II
Introduction to analysis and synthesis. Descriptive chemistry of the more common elements. Three hours per week. Prerequisites: CHEM 211 and CHEM 211L or equivalent (each with a C or better) Restrictions: corequisite CHEM 212R Offered: Each Term

CHEM 212R General Chemistry II
Liquids and solids, solutions, equilibrium, kinetics, electrochemistry and thermodynamics. Introductory course to all advanced work in chemistry. Prerequisites: CHEM 211 and CHEM 211L or equivalent (each with a C or better) Restrictions: corequisite CHEM 212R Offered: Each Term

CHEM 311 Laboratory Safety And Health I
An introduction to laboratory safety and health. Topics to be discussed include good laboratory practice; laboratory hazards; safe chemical handling, storage and disposal; first aid; protective equipment; and federal regulations. Prerequisite: Chemistry 320 or CHEM 321, or equivalent. Fall.

CHEM 320 Elementary Organic Chemistry
A one-semester course covering both aliphatic and aromatic fields designed to satisfy requirements for dental schools, medical technology programs, six-year medical programs, pharmacy schools, biology majors. Prerequisite: CHEM 211 CHEM 211L and CHEM 212 CHEM 212L or their equivalents (each with a C or better). Restrictions: corequisite CHEM 320L Offered: Winter, Summer

CHEM 320L Experimental Organic Chemistry
Elementary organic chemistry experiments to teach basic laboratory operations. Three hours of laboratory a week. Prerequisite: CHEM 211 CHEM 211L and CHEM 212 CHEM 212L or their equivalents (each with a C or better). Restrictions: corequisite CHEM 320L Offered: Winter, Summer

CHEM 321 Organic Chemistry I
The two terms (CHEM 321, CHEM 322R) constitute an integrated unit in which the chemistry of aliphatic, aromatic, and some heterocyclic compounds are studied. The study begins with simple monofunctional compounds and ends with polyfunctional natural products. Prerequisites: CHEM 211 CHEM 211L and CHEM 212 CHEM 212L or their equivalents (each with a C or better). Restrictions: corequisite CHEM 321L Offered: Each Term

CHEM 321L Organic Chemistry Laboratory I
CHEM 321L introduces the student to basic techniques and procedures in isolation, purification, and characterization of organic
compounds and simple reactions used in the organic chemistry laboratory. The student will also be trained in the proper way to write a scientific laboratory report. Prerequisite: CHEM 211 CHEM 211L and CHEM 212 CHEM 212L or their equivalents (each with a C-or better) Restrictions: corequisite CHEM 321 Offered: Each Term

CHEM 322L Organic Chemistry Laboratory II
CHEM 322L is an extension of CHEM 321L. CHEM 322L builds from the basic techniques, procedures, and writing to more advanced organic operations. Prerequisite: CHEM 321 and CHEM 321L or equivalent (each with a C-or better) Restrictions: corequisite CHEM 322R Offered: Each Term

CHEM 322R Organic Chemistry II
Continuation of Chemistry 321. Prerequisites: CHEM 211/211L, CHEM 212/212L and CHEM 321/321L or their equivalents. (each with a C-or better) Restrictions: corequisite CHEM 322L Offered: Each Term

CHEM 330 Elementary Physical Chemistry
An introductory course in the principles of physical chemistry for students who have not had calculus. Prerequisites: CHEM 320, CHEM 322R or CHEM H322R, college physics, and a good background in algebra and trigonometry. Three lecture hours a week. Fall.

CHEM 341 Analytical Chemistry I: Quantitative Analysis
Principles of gravimetric, volumetric, electrolytic, and other methods of analysis. Prerequisites: CHEM 212R or CHEM H214, and Math 120. Two lectures and six laboratory hours a week. Offered: Every Fall; Winter term in odd years.

CHEM 341W1 Analytical Chemistry I: Quantitative Analysis
Principles of gravimetric, volumetric, electrolytic, and other methods of analysis. Satisfies writing intensive requirement for the B.A. degree in Chemistry. Prerequisites: CHEM 211 CHEM 211L, CHEM 212 CHEM 212L, and MATH 120 or their equivalents (each with a C-or better). Restrictions: Has passed the WEPT Offered: Each Term

CHEM 345R Instrumental Analysis
An introductory course on the use of instruments for chemical analysis with particular reference to applications of interest to medical technologists and other students in the sciences. Emphasis will be placed on optical, electrochemical and separation methods. Prerequisites: CHEM 320, CHEM 341, or their equivalents. (Does not meet requirements for an A.C.S. certified degree). Two lectures and three laboratory hours each week.

CHEM 345R Instrumental Analysis
An introductory course on the use of instruments for chemical analysis with particular reference to applications of interest to medical technologists and other students in the sciences. Emphasis will be placed on optical, electrochemical and separation methods. Prerequisites: CHEM 320, CHEM 341, or their equivalents. (Does not meet requirements for an A.C.S. certified degree). Two lectures and three laboratory hours each week.

CHEM 367 Bioorganic Chemistry
An examination into the current topics at the interface between chemistry and biology. Emphasis will be on the current literature and will include such topics as nucleic acid chemistry, protein chemistry, and carbohydrate chemistry. Prerequisites: CHEM 321 CHEM 321L and CHEM 322 CHEM 322L or their equivalents (each with a C-or better) Offered: Fall

CHEM 382 Inorganic And Organic Synthesis
A number of inorganic, organic, and organometallic compounds will be prepared using a variety of synthetic techniques. Prerequisites: CHEM 321 CHEM 321L and CHEM 322 CHEM 322L or their equivalents. (each with a C-or better Offered: Fall

CHEM 387 Environmental Chemistry I
A survey of how chemical principles can be applied to the environment. Included will be topics in aquatic chemistry, atmospheric chemistry and chemistry of the geosphere and soil. Prerequisites: CHEM 320 OR CHEM 322. Offered: Winter Semester.

CHEM 387 Environmental Chemistry I
A survey of how chemical principles can be applied to the environment. Included will be topics in aquatic chemistry, atmospheric chemistry and chemistry of the geosphere and soil. Prerequisites: CHEM 320 OR CHEM 322. Offered: Winter Semester.

CHEM 390 Special Topics In Chemistry
This course will focus on an area of chemistry of contemporary significance. The amount of credit is to be determined by arrangement with the department. May be repeated for credit when the topic varies but no more than three hours of credit may be applied to major course requirements. Prerequisites: Consent of instructor and either Chemistry 320, 322R or H322R. On demand.
CHEM 390PT Special Topics In Chemistry

CHEM 395 Directed Readings In Chemistry
Intensive readings in areas of joint interest to the enrolled student and the cooperating faculty member. Readings may not duplicate or substitute for current course offerings. Prerequisites: CHEM 320 CHEM 320L or CHEM 321 CHEM 321L and CHEM 322/322L or their equivalents. (each with a C-or better). Restrictions: permission of supervising faculty member Offered: By Arrangement

CHEM 399 Intro To Research
Special problems to introduce undergraduate chemistry majors to research methods. A comprehensive written report is required and a copy of the report is to be retained in the chemistry office. May be taken only after consultation with a member of the chemistry staff. Prerequisite: CHEM 212R or CHEM H214. Semester offered: Every semester

CHEM 410 Chemical Literature
A systematic introduction to the efficient use of the chemical literature. Topics will include both classical search methods and computer search methods. Prerequisites: CHEM 320 CHEM 320L or CHEM 321 CHEM 321L and CHEM 322 CHEM 322L or their equivalents. (each with a C-or better). Offered: Fall

CHEM 431 Physical Chemistry I
A first course in physical chemistry having a calculus base. This course emphasizes thermodynamics with an introduction to the basic principles of quantum mechanics. Prerequisites: Math 210 and Math 220; and Physics 220 or preferable Physics 250 Restrictions: Prerequisite or corequisite Math 250 Offered: Fall

CHEM 432 Physical Chemistry II
A second course in physical chemistry having a calculus base. This course emphasizes the quantum mechanics description of atoms and molecules, molecular spectroscopy, statistical mechanics, and kinetics. Prerequisites: Math 210, Math 220 and Math 250; and Physics 220 or preferably Physics 250; and Chem 431 (each with a C-or better). Restrictions: corequisite CHEM 437WI Offered: Winter

CHEM 433 Molecular Spectroscopy
A theoretical introduction to molecular spectroscopy and its relation to structure. Electronic, vibrational and rotational spectra of chemical systems will be discussed. Prerequisite: CHEM 432 or consent of instructor. Offered: Fall term.

CHEM 437WI Experimental Physical Chemistry I
Experimental methods in physical chemistry. One hour lecture and six hours laboratory each week. Satisfies writing intensive requirements for the B.A. or B.S. degree. Prerequisites: Math 210, Math 220 and Math 250; and Physics 220 or preferably Physics 250; and CHEM 431 (each with a C-or better). Restrictions: Corequisite CHEM 432 and has passed the WEPT prior to enrollment Offered: Winter

CHEM 442R Analytical Chemistry II: Instrumental Analysis
A continuation of CHEM 341. The experimental and theoretical aspects of optical and electrochemical, chromatographic and other physicochemical methods of analysis. Prerequisite: CHEM 341. Prerequisite or corequisite: CHEM 432. Two lectures and four hours laboratory a week. Winter.

CHEM 442R Analytical Chemistry II: Instrumental Analysis
A continuation of CHEM 341. The experimental and theoretical aspects of optical and electrochemical, chromatographic and other physicochemical methods of analysis. Prerequisite: CHEM 341. Prerequisite or corequisite: CHEM 432. Two lectures and four hours laboratory a week. Winter.

CHEM 451R Inorganic Chemistry
Modern concepts and theories of inorganic chemistry. Prerequisite or corequisite: CHEM 432. Three lecture hours each week. Winter.

CHEM 471 Introduction To Polymer Chemistry
Survey of organic and inorganic monomers and polymers; the occurrence, synthesis, structures and properties of natural and synthetic polymers; discussion of general properties of plastics, elastomers, fibers, resins, and plasticizers. Three lecture hours a
week. Prerequisites: CHEM 432 (C-or better) Offered: Fall

**CHEM 480** Computer Applications To Chemical Problems
An intense course in Fortran programming and its uses in chemical problems related to theory and experimentation. Emphasis will be placed on the mathematical structures of chemical problems and the coding of those problems into Fortran. No previous programming experience is required. Prerequisites: CHEM 320 or CHEM 322R.

**CHEM 490** Special Topics In Chemistry
This course will focus on an area of chemistry of contemporary significance. The amount of credit is to be determined by arrangement with the department. May be repeated for credit when the topic varies but no more than three hours of credit may be applied to major course requirements. Prerequisites: Consent of instructor. Prerequisite or corequisite. CHEM 431. On demand.

**CHEM 495** Directed Readings In Chemistry
Intensive readings in areas of joint interest to the enrolled student and the cooperating faculty member. Readings may not duplicate or substitute for current course offerings. Prerequisites: CHEM 432 and permission of the cooperating faculty member. By arrangement.

**CHEM 499** Senior Research
The student is given an original research problem and will be held responsible for all previous experience in working toward its solution. A well-written, comprehensive, and well-documented research report is required, and a copy of the report is to be retained in the Chemistry department. Prerequisites: CHEM 432 and consent of a member of the Chemistry staff. Credit arranged. Semester offered: Every semester

**CHEM H321** Honors: Organic Chemistry I

**CHEM H321L** Organic Chemistry Laboratory I - Honors

**CHEM H322LR** Organic Chemistry Laboratory II - Honors
A more intense version of Chemistry 322L. See course description for CHEM 322L. Prerequisite: CHEM 321L.

**CHEM H322R** Honors: Organic Chemistry II

**CHEM H322R** Honors: Organic Chemistry II

**Chinese (CHINESE)**

**CHINESE 110** Elementary Chinese I
Introduction to the sound system of modern Chinese, aural comprehension, oral expression, basic structural patterns, writing systems. Fall.

**CHINESE 120** Elementary Chinese II

**CHINESE 211** Second Year Chinese I
Introductory readings of colloquial Chinese, literature, conversation, simple composition, and comparison between written and spoken styles in modern Chinese. Prerequisite: Chinese 120 or equivalent. Fall.

**CHINESE 221** Second Year Chinese II
Readings of modern Chinese with emphasis on expository writings, analysis of syntactic structure, composition and translation. Prerequisite: CHINESE 211 or equivalent. Winter.

**CHINESE 280** Special Intermediate Chinese Topics I
Instruction of Chinese on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.
CHINESE 290 Special Intermediate Chinese Topics II
Continuation of CHINESE 280. May not be repeated for credit. As needed.

CHINESE 380 Special Topics: Composition And Conversation
Treatment of a particular genre or area of literature in Chinese normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor. On demand.

Classical and Ancient Studies (CLASSICS)
CLASSICS 210 Foundations Of World Literature I
This course studies ancient world literature such as The Descent of Inanna, Egyptian love poetry, Hebrew Scriptures, the epics of Homer and Virgil, the Analects of Confucius, and the Oriental wisdom of Laozi. The course also considers ancient creation epics such as the cosmic battle between Marduk and Tiamat, the Metamorphosis of Ovid, and the great Indian epic The Ramayana. Also listed as WLD-LIT 210.

CLASSICS 210 Foundations Of World Literature I
This course studies ancient world literature such as The Descent of Inanna, Egyptian love poetry, Hebrew Scriptures, the epics of Homer and Virgil, the Analects of Confucius, and the Oriental wisdom of Laozi. The course also considers ancient creation epics such as the cosmic battle between Marduk and Tiamat, the Metamorphosis of Ovid, and the great Indian epic The Ramayana. Also listed as WLD-LIT 210.

CLASSICS 300 Special Topics
A course about a selected field, genre or individual figure from the ancient world that is not part of the program's regular offerings. May be repeated for credit.

CLASSICS 300A Special Topics
A course about a selected field, genre or individual figure from the ancient world that is not part of the program's regular offerings. May be repeated for credit.

CLASSICS 300CB Cc: Women In The Ancient World
This course focuses on the history, representation, literature, social lives, and political roles of women in ancient civilization including Egypt, Mesopotamia, the Biblical World, Greece, and Rome. It integrates methodologies from history, art history and archaeology, literary studies, and women's studies.

CLASSICS 300CR Roman Revolution: History And Culture From Gracci To Augustus
The period of Roman history from the revolution initiated by the Gracchi to the demise of the Republic and the establishment of the Principate under the Augustus will be studied. The course begins with the Scipionic Circle under whose leadership foreign imperialism, domestic factionalism, and the influx of Greek culture increased. Political, social and cultural developments which culminated in the violent death of the old system will be traced. We will also show how Augustus kept the past alive to make his new government acceptable to the tradition-loving Romans. Students will read the words of such writers as Terence, Cato, Polybius, Cicero, Caesar, Sallust, Catullus, Horace, Virgil, and Ovid, whose works cover the important genres of Roman literature-new comedy, rhetoric, satire, history, epic, pastoral and lyric poetry.

CLASSICS 300CS Cc: Clio And The Other Muses
This course focuses on the history, art, architecture, literature, and culture of Athens in the 5th Century BCE. Course readings will include primary literary and historical sources such as lyric poetry, comedy and tragedy, philosophy, and historical writings.

CLASSICS 300CY Cc: Ancient World/Cinema
This course will explore the tradition of depicting the ancient Mediterranean world in film from the early silent era to the present. Topics to be covered include the ways that filmmakers respond to literary and historical sources from the ancient world, interact with the artistic tradition of films about the ancient world, the relation of these films to other works by the same creative personnel (directors, actors, writers, producers, etc.), and the political and cultural contexts in which the films were released.

CLASSICS 300CZ Cc: Archaeology Of Ancient Disasters
Remarkable human achievements are revealed by archaeological research, but the human past was frequently shaped as well by disasters of natural and human origin. Drawing on case studies that include data from the geosciences, archaeological excavations, and historical sources, this class examines how earth processes, the biosphere, and human cultural behavior were all sources of catastrophe. We begin with the geological context of disaster, including earthquakes, volcanic eruptions, climate change, and soil depletion. Next, we examine how ancient societies respond to disease, an ever present threat from the biological environment. Finally, we look at how ancient human groups were changed by stresses of cultural origin, including overpopulation, depletion of vital resources, and warfare. The study of ancient disasters not only gives us a wider understanding of human history, it may offer
lessons for coping with future catastrophes. Also cross listed as GEOL 326CZ. Offered: On Demand

CLASSICS 300D Special Topics
A course about a selected field, genre or individual figure from the ancient world that is not part of the program's regular offerings. May be repeated for credit.

CLASSICS 301 Survey of Western Art I
A survey of ancient and medieval Western art. The course will begin with the great civilizations of the Mediterranean basin and consider the changes wrought by the introduction of Christianity and Islam. Study of the medieval era will include Romanesque and Gothic architecture through the 15th century, but will not include the beginnings of panel painting nor of independent sculpture. This course meets the college fine arts requirement. Cross-listed with Art History 301.

CLASSICS 310WI Ancient Philosophy
A survey of the central figures of classical philosophy: the pre-Socratics, Socrates, Plato, Aristotle, the Stoics, the Epicureans and other philosophers of antiquity. The contributions of major philosophers to the development of science, religion, and social and political theories are studied. Also listed as PHILOS 310WI. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent and successful completion of the WEPT.

CLASSICS 318 Bible As Literature
A critical study of the major portions of the Old and New Testaments and the Apocrypha, with special attention to the development of literature from oral tradition, the literary genres, themes and archetypes represented in the collection, and the diction and style which have influenced later literature. Consideration also of the relation of Biblical literature to the historical, religious, and cultural milieu of the ancient Near East. Also listed as ENGLISH 318.

CLASSICS 319 Myth And Literature
A study of classical myth including readings from Homer to Ovid, analysis of selected myths in later literature, art, and music, and a study of contemporary definitions and approaches to myth. Also listed as ENGLISH 319.

CLASSICS 340AWI Classical Literature In Translation
Course covers readings from the literature of classical Greece and Rome, with emphasis on critical analysis and writing about texts in the context of ancient and modern debates about their meaning.

CLASSICS 369 Introduction To Prehistoric And Classical Archaeology
An introduction to archaeological research methods that traces human origins and cultural development from the earliest fossil evidence to the threshold of written history and civilization. This class emphasizes the evolutionary and cultural developments that allowed our ancestors to colonize the continents and develop lifeways involving hunting and gathering, farming and urbanism.

CLASSICS 370 Archaeology as Anthropology: The Development of Human Societies
This class examines the development of archaeology as a distinctive branch of anthropology, and archaeology?s role in a centuries-long debate about the causes of cultural variation and the development of human societies. This class examines how the Enlightenment, colonialism, the geological discovery of Deep Time? and the Darwinian Revolution not only give rise to anthropology and archaeology, but launched an enduring debate about how and why we study cultural behavior. Cross-listed with Anthropology 385.

CLASSICS 376 Ancient Concepts of the Hero
This course traces the ancient concept of the hero by reading selected ancient works by authors such as Homer, Thucydides, Livy, Plutarch, Caesar, Tacitus, and Sallust. Students will also examine the impact of the ancient concept of the hero on modern literature and art. Also listed as ENGLISH 376

CLASSICS 430 Plato
Selected dialogues of Plato are studied with a view to understanding Plato's philosophy and its position in the world of Greece and antiquity. Plato's philosophy is also examined with reference to his place in the Western tradition and in modern philosophy. Also listed as PHILOS 430. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent

CLASSICS 431 Aristotle
Selected portions of Aristotle's works on logic, metaphysics, science, ethics, politics, and poetics are studied with a view to understanding Aristotle's philosophy and its position in the world of Greece and antiquity. Aristotle's philosophy is examined with reference to its place in the Western tradition and in modern philosophy. Also listed as PHILOS 431. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent
CLASSICS 467 Myth And Ritual
Myth and "ritual" have long been fundamental categories in the study of religion. This course will briefly survey some of the major theories and approaches to the study of myth and ritual from the Enlightenment to the present. Will not only trace the shifting meanings of "myth" and "ritual," but will critically evaluate the utility of diverse approaches to the study of religious phenomena designated by these terms. Reading will include theoretical works, as well as selected case studies. Also listed as HISTORY 467.

CLASSICS 469 Archaeology And Biblical History
An examination of ancient Israel as she emerges from the ruins of the past, both lapidary and literary. Through a study of the "mute documents," artifacts man-made (storied cities, household utensils, inscribed shards from Jericho to Jerusalem) we gain an insight indispensable for Biblical studies, for ancient Near Eastern history. Also listed as HISTORY 469.

CLASSICS 470 Ancient Egypt
This course describes the political, social and cultural evolution of ancient Egypt from pre-dynastic times, with major emphasis upon the Old, Middle, and new Kingdoms (especially the 18th dynasty and the reign of Akhenaton). Also listed as HISTORY 470.

CLASSICS 470P Ancient World: The Social History Of The Ancient World
The optional four-credit-hour component (modified independent study) will concern the social aspects of these civilizations, i.e., their daily lives. Readings and audiovisual aids will be used to help the student who will be expected to choose one aspect of each civilization, such as women, slavery, merchants, education, medicine, etc., and write a five-page paper about that topic for each period, i.e., Mesopotamia, Egypt, Greece and Rome. Also listed as HISTORY 470P.

CLASSICS 471 Ancient Greece
This course begins with a survey of the pre-classical Minoan and Mycenaean civilizations and then describes the rise of prominent Greek city-states (with particular emphasis upon the evolution of Sparta and the political, social and cultural contributions of Athens). The course concludes with the rise of Macedon and Alexander's conquests and significance. Also listed as HISTORY 471.

CLASSICS 471P Ancient World: The Political Structure Of The Ancient World
The four-hour course period on weeknights will emphasize the historical aspects of the ancient civilizations. The lectures will be chronologically organized to focus upon their evolution from their rise to their collapse. Also listed as HISTORY 471P.

CLASSICS 472 Ancient Rome
This course covers Roman history from its origins (including the Etruscans) to the decline of the imperial system. Particular emphasis is placed upon the political, social and economic developments in the Republic, the death of the Republic, the early Principate, and the factors that led to Rome's decline in the ancient world. Also listed as HISTORY 472.

CLASSICS 472P Ancient World: The Cultural & Intellectual Dimensions Ancient Civ
The four weekend periods will provide the students with a general picture of these civilizations: society, religion, economics, and culture (w.f., arts, literature, philosophy, science, etc.). Guest lecturers, slides, films and video cassettes will be used to introduce the varied aspects of these ancient peoples. Also listed as HISTORY 472P.

CLASSICS 475WI History Of Ancient Israel
Judaism has had a tremendous impact on our civilization and yet most Americans are only dimly aware of its origins and development. This course will trace the roots of the Jewish religion in its historical context from its beginnings through the formation of rabbinic culture. The rise of Christianity will be examined in its original Judaic context, and recent discoveries, particularly those pertaining to the Dead Sea Scrolls, will be interpreted. Also listed as HISTORY 475WI.

CLASSICS 479 From the Parthenon to the Altar of Peace
The course centers on the many different styles of Greek and Roman art from the fifth century B.C. to the early first century A.D. Attention is also paid to the political and literary forces behind its imagery. Three monuments serve as the pillars upon which the course rests: the Parthenon, Pergamon Altar, and the Ara Pacis. The lessons learned about style, the interaction of politics, literature, and art and the foibles of scholarship are intended to be applied to other fields of art history. Cross-listed with Art-History 479. Prerequisite: Art-Hist 301, Clas 301 or permission of instructor

CLASSICS 499 Senior Tutorial
A three-hour comprehensive reading and research tutorial leading to the writing of a senior paper. It consist of tutorial sessions and independent research leading to a major paper using original source materials. Prerequisite: Recommended for students wishing to pursue a graduate degree in Classical and Ancient Studies. Restrictions: Recommended for students wishing to pursue a graduate degree in Classical and Ancient Studies.
Communication Studies (COMM-ST)
COMM-ST 110 Fundamentals Of Effective Speaking And Listening
An introduction to the dimensions of effective platform speaking with special emphasis on developing critical listening skills. Lecture, performance, and discussion. Every semester.

COMM-ST 140 Principles Of Communication
An interdisciplinary introduction to the study of contemporary communication studies including a consideration of intrapersonal, interpersonal and public communication. Lecture. For non-majors only. Offered: Fall or winter.

COMM-ST 212 Argumentation And Debate
A study of the nature of logical discourse generated through the preparation and presentation of oral argument within the framework of the debate format. Lecture, performance and discussion. Offered: Fall and winter.

COMM-ST 213 Argumentation And Critical Thought
An introduction to the theory and application of argument construction. The course is designed to examine the fundamental strategies of critical thinking and to help understand the relationships among critical thought and argumentation development and refutation. This course is designed for application across many fields and is not specific to debate or oral argument. Lecture, discussion. Prerequisite: None. Offered: Fall.

COMM-ST 220 Introduction: Modern Communications Media
A comprehensive survey of the content, structure and control of the communications media in American society--newspaper, motion pictures, radio and television; providing an informational frame of reference that will enable discerning students to formulate and apply useful critical concepts in evaluating America's media environment. Every semester.

COMM-ST 230 Introduction To Film Studies
The course is an introduction to the study of film as an art form and industrial practice. Students are introduced to the basic terms and concepts of film theory, including theories of film editing and mise-en-scene while becoming familiar with the basic ""canon"" of major films and directors that form the foundations for the academic field of film studies. Prerequisites: English 110. Offered: Spring and Fall

COMM-ST 250 Introduction To Film And Video Methods
This course is a comprehensive examination of film and video production methods and visual literacy. It is the foundation and prerequisite for all film, video, and new media production courses. It is also the professional media production overview course for advertising, public relations, and other creative, non-technical communications careers. Prerequisite: None Offered: Spring,Fall

COMM-ST 254P Communication Competence: Theory And Practice
An introduction to the discipline of communication. A core set of issues is investigated in three major areas of the field: interpersonal communication, small group communication and public speaking. The course design is based on the premise that the development of communication skills involves two important factors: (1) understanding the theoretical principles underlying effective communication behavior and (2) practical application of those principles in various communicative exercises. Offered: Summer.

COMM-ST 260P Introduction To Web Communications
This four credit hour web-based multimedia course will examine the process of critically evaluating information delivered on the Internet. It is designed as an introduction for adults and students who use Internet information for work and/or school. The process of critically evaluating Internet information will be described in four modules: traditional evaluation techniques; searching and researching strategies; Internet evaluation techniques and Internet evaluation resources.
COMM-ST 265 Media Photoimaging
An introduction to the production and manipulation of photographic images as they are applied in the print publishing medium, multi-image, and multimedia communications. Photography will be examined as a fundamental medium for the study of visual communication and the techniques of creating specifically meaningful images. This course will provide an essential familiarity with the terminology, concepts, practices, and process variables involved in photographic direction and production supervision, and will also introduce the basics of image composition, manipulation, and quality control. Offered: On Demand.

COMM-ST 281 Animation
This course provides an introduction to animation production techniques and an overview of the history of American animation arts. We will address both stop-motion and computer animation using industry standard software.

COMM-ST 303WI Introduction To Journalism
Introduction to the styles and techniques of reporting and writing basic news through assignments in straight news, features and in-depth stories. Exposure to the history and principles of American journalism. Practical application in writing news and news feature articles. Also offered as ENGLISH 303WI.

COMM-ST 308 Introduction To The Study Of Human Communication
This course serves to introduce students to the basic theories, perspectives and methodologies used (historically and currently) in the study of speech, interpersonal and mass communication.

COMM-ST 308WI Introduction To The Study Of Human Communication
This course serves to introduce students to the basic theories, perspectives and methodologies used (historically and currently) in the study of speech, interpersonal and mass communication. Writing Intensive course.

COMM-ST 311 Radio & Television Performance
A study of the specialized radio and television performing and operating situations and techniques simulated and evaluated in studio sessions. Lecture, discussion and performance. Prerequisite: None.

COMM-ST 312 Advanced Public Speaking
Advanced study of rhetorical theory and its application to the presentation and criticism of public discourse. Prerequisite: COMM-ST 110. Offered: Fall & Winter.

COMM-ST 312P Advanced Public Speaking
Advanced study of rhetorical theory and its application to the presentation and criticism of public discourse. Prerequisite: COMM-ST 110. Offered: Fall & Winter.

COMM-ST 314WI Reporting
A seminar of practical application in advanced reporting. Assignments to cover news events and to pursue in-depth news reports on the campus and off. Work is turned in on deadline and critiqued by the instructor. Also offered as ENGLISH 313. Prerequisite: ENGLISH 110, ENGLISH 225, and successful completion of the WEPT.

COMM-ST 317 Persuasion
A study of the rhetorical, psychological and ethical principles of influencing and controlling individuals and groups, and of the methods of adapting to various attitudes and audiences through the preparation, presentation and evaluation of persuasive speeches. Lecture, discussion and performance. Prerequisite: Communication Studies 110. Offered: On demand.

COMM-ST 320 Mass Media, Culture And Society
A critical exploration of the role of mass media (and its reception) in the social construction of reality. The course employs theoretical, analytical and empirical approaches derived from multidisciplinary sources, particularly "critical theory" semiotics, post-structuralism, psychoanalysis and ethnography. Term paper required. Prerequisite: Offered: Every semester.

COMM-ST 322 Oral Performance In Speech Communication
This course is designed to develop and strengthen oral communication for students pursuing careers in pre-law, media, human resources, and education as well as increase the skills of potential professional speakers. The student will learn to develop emotional, vocal, physical, and non-verbal skills through an investigation of poetry, prose, and non-fiction literature. Through the process of reading, studying, investigating, rehearsing, and performing literary and nonliterary works, the students will learn to pay particular attention to the voice embodied in a given text and the cultural and social context within which that voice speaks.
Prerequisite: COMM-ST 110. Offered: Fall and Winter.

**COMM-ST 330 Introduction To Film Studies**
The course is an introduction to the study of film as an art form and industrial practice. Students are introduced to the basic terms and concepts of film theory, including theories of film editing and mise-en-scene while becoming familiar with the basic "canon" of major films and directors that form the foundations for the academic field of film studies. Prerequisites: English 110. Offered: Spring and Fall

**COMM-ST 331WI Mass Media In America**
Writing intensive. Social History of the development of mass media, radio, film and television, from Marconi's first experiments to the present. Emphasis placed on relationship of American culture and American media. Term paper required. Prerequisite: Successful completion of the WEPT. Offered: Fall.

**COMM-ST 339 Film Theory And Criticism**
The course serves to locate the film medium within the study of human communication while developing an understanding of the effects of film on the individual and society with an emphasis on understanding the film medium as both an art form and a reflection of a social system with national, cultural & sub-cultural components. Term paper required. Offered: Spring

**COMM-ST 341 Rhetorical Theory And Criticism**
An analysis of significant public discourse within the context of social protest and political rhetoric with attention to applying methods of communication criticism in evaluating the effectiveness of persuasive advocacy aimed at social change. Fall.

**COMM-ST 341WI Rhetorical Theory And Criticism**
Writing intensive. An analysis of significant public discourse within the context of social protest and political rhetoric with attention to applying methods of communication criticism in evaluating the effectiveness of persuasive advocacy aimed at social change. Prerequisite: Successful completion of the WEPT.

**COMM-ST 343 Group Dynamics**
A study of strategies and communication relationships unique to non-dyadic situations, with an emphasis on the integral structure of leadership, roles, norms and task functions. Discussion. Offered: On demand.

**COMM-ST 344 Communication In Organizational Settings**
An examination of the major elements of interpersonal, group, and oral communication competence essential to human interaction in organizational settings. The course focuses on developing communication competencies and increasing theoretical understanding of the communication process within the organizational context. COMM-ST 110 OR COMM-ST 308. Offered: Fall/Winter.

**COMM-ST 344WI Communication In Organizational Settings**
An examination of the major elements of interpersonal, group, and oral communication competence essential to human interaction in organizational settings. The course focuses on developing communication competencies and increasing theoretical understanding. Prerequisite(s): COMM-ST 110 or COMM-ST 308 and WEPT.

**COMM-ST 345P Communication In Organizational Settings**
An examination of the major elements of interpersonal, group, and oral communication competence essential to human interaction in organizational settings. The course focuses on developing communication competencies and increasing theoretical understanding of the communication process within the organizational context. prerequisite(s): None.

**COMM-ST 351WI Fundamentals Of Writing For The Media**
Writing intensive. Analysis of individual differences and common characteristics of copy for eye and ear, with emphasis on the application of both verbal and visual imagery in the process of communicating the writer's ideas and intentions. Weekly written assignments and critical analysis of the student's work. Prerequisites: COMM-ST 110 and successful completion of the WEPT. Offered: Fall and winter.

**COMM-ST 354 Introduction to Screenwriting**
An introduction to the form and language of the motion picture screenplay. Students will learn to create a workable blueprint for a movie and undertake an in-depth examination of visual storytelling. This will include understanding the basics of dramatic structure, scene and sequence construction and the role of dialogue. Emphasis will be placed on students mastering the accepted
movie industry format of the screenplay. They will also adapt a short story and revise it after giving and receiving feedback in
small groups. Prerequisites: CommSt 230. Offered: Fall

COMM-ST 361  Broadcast Management
An analysis of the trends, patterns and methods of radio and television operations. Prerequisite: COMM-ST 308. Offered: On
demand.

COMM-ST 363  Radio Production I
A study of the techniques of producing audio material for use in radio, in concerts, on film, on television and in the recording
studio. Lecture, discussion, and laboratory. Offered: Fall.

COMM-ST 371  Television Studio
A study of the principles and techniques of multi-camera television studio production, with emphasis on introducing and
developing intermediate skills using professional broadcast equipment and real-time live production technologies. Lecture,
discussion, and laboratory. Prerequisite: COMM-ST 250 or COMM-ST 270. Offered: Spring.

COMM-ST 373 Intermediate Media Production
Emphasis on digital production and non-sync 16mm film. Students produce, direct and edit a significant narrative, documentary
or experimental project. Lecture, discussion and laboratory. Prerequisite: COMM-ST 250 Offered: Spring

COMM-ST 376  History Of The Film Industry
A history of the development of the American film industry from 1900 to the end of the studio era. The course will stress such
issues as studio production, censorship, the economics of production and the selling of mass culture through the film medium.
Term paper required. On demand.

COMM-ST 377 Interpersonal Communication
An intensive analysis of the dimensions of intrapersonal and interpersonal communication designed to identify the philosophies
and methods which underwrite effective human communication. Lecture and discussion. Offered: Fall and Spring.

COMM-ST 377WI Interpersonal Communication
Writing intensive. An intensive analysis of the dimensions of intrapersonal and interpersonal communication designed to identify
the philosophies and methods which underwrite effective human communication. Lecture and discussion. Prerequisite:
Successful completion of the WEPT (effective FS93). Offered: Fall and winter.

COMM-ST 378 Computer-Mediated Communication
Examination of the nature of human communication on the Internet. Design function, content innovations of computer mediated
communication discussed, with emphasis on technology as a means of interpersonal communication. Research, essays, and
participation in online environment required. Prerequisite: None Offered: On demand

COMM-ST 378WI Computer Mediated Communication
Examination of the nature of human communication on the internet. Design, function, content innovations of computer mediated
communication discussed, with emphasis on technology as a means of interpersonal communication. Research, essays, and
participation in online environment required. Prerequisite: Successful completion of the WEPT EXAM Restrictions: Writing

COMM-ST 379 African American Images in Film
This course examines the historical and social evolution of African Americans in film from the early 1900s to the present. The
course will provide an overview of contributions from African Americans in cinema and trace their impact in Hollywood through
critical analysis. Films show what a society accepts and rejects, therefore the course will consider major themes, historical
movements, and how films capture societal issues. Most of the discussions will focus on images in front of the camera, although
works from African Americans behind the camera may be explored as well. Offered: Fall & Winter.

COMM-ST 380 Contemporary Media Topics

COMM-ST 381 Film and Media Arts
This course covers the creative, technical, and practical aspects of short-form narrative film production. Prerequisites: Comm-St
COMM-ST 382 Advanced Media Topics
Variable content: Media Arts and Media Studies Topics will be addressed in this course including film/video production and post-production techniques, and analytical evaluation of recent trends in media. Prerequisite: Topic Dependent Restrictions: Approval of instructor Offered: Winter

COMM-ST 383 Cross-Cultural Journalism & Mass Media
Cross-Cultural Journalism & Mass Media provides journalistic tools for traditional and new media coverage of diverse ethnic, gender, ability and ideological groups inside and outside the United States. The critical role of diverse voices in a democracy will be discussed. Students at UMKC and the Missouri School of Journalism participate in joint lectures transmitted by UMKC and MU instructors from their respective campuses.

COMM-ST 384 Documentary Film
The purpose of this course is to familiarize students with the history, terminology, film making techniques, film makers and cultural/societal influences of documentary film. Five distinguishing characteristics will be examined in terms of 1) subject(s), 2) purposes, points of view, or approaches, 3) forms, 4) production methods and techniques and 5) experiences they offer to audiences. Prerequisites: None. Offered: Every winter.

COMM-ST 385 Documentary Production
This course is designed to familiarize students with the basics of documentary production from an artistic, ethical, and practical results-oriented perspective. Prerequisite(s): COMM-ST 250 or Consent of Instructor. Offered: Fall

COMM-ST 388 Media Ethics
This course is designed to sensitize the ethical considerations the underlie the conventions and practices of print, broadcast, and internet media. By placing traditional and new media in a wider intellectual context than is generally possible under the daily demands of producing news, information, and entertainment, it seeks to produce a larger sense of media as industry and as a career choice.

COMM-ST 390 Forensic Activities
Participation in the intercollegiate forensic program. A practicum in debate, discussion, oratory and other forensic activities. Prerequisite: Consent of instructor. Offered: Summer, fall, winter.

COMM-ST 391 The World(S) Of Alfred Hitchcock
The course offers an historical study of the film art of Alfred Hitchcock. The course gives special attention to the director's work in the silent cinema of the U.K., Hitchcock's early major British sound films, his arrival in the United States, his major World War II propaganda films, the directors maturing into a major influence on world cinema in the 1940s, and Hitchcock's "masterworks" of the 1950s-1960s. Offered: On Demand

COMM-ST 392 Great Directors Of Foreign Film
The course is an introduction to the major films and directors of the international cinema. Particular attention will be given to the influence of German Expressionism, Italian ""Neo-Realism,"" the ""French New Wave, the ""New German Cinema"" of the 1970s, post-Franco Spanish cinema, and the national cinemas of South America, India, China, and Japan. Offered: On Demand

COMM-ST 393 History Of The Hollywood Musicals
The course offers an historical survey of the development of the film musical as a major Hollywood film genre from the introduction of the sound film in 1927 to current manifestations of the genre. The course gives particular attention to the development of the studio musicals of the 1930s, the role of the musical during World War II, the ""Golden Age"" of the MGM musical in the 1950s-60s, and the effects on the traditional Hollywood musical of the Vietnam Era social upheavals. Offered: On Demand

COMM-ST 394 The World Of ""Film Noir"
The course offers an historical survey of the development of ""film noir"" as a major film genre. The course examines the major characteristics that define ""film noir"" and offers an introduction to the historical roots of this genre in German Expressionism, as well as the social and political context for the development of ""film noir"" as a hollywood studio genre in the late 1940s. Particular attention is given to the social/ political conditions of the 1950s that contributed to both the rise and decline in popularity of ""film noir"" during the Cold War, as well as the film genre's revival in the ""neo-noirs"" of the 1970s. Offered: On Demand

COMM-ST 400 Special Studies
(A-N) This is an upper-level course on a subject which is not a part of the regular department offering. The course results from one or more of the following: (1) the expressed desire of students (2) the broadened or refocused scholarship of a member of the
communication studies faculty (3) the temporary presence of a scholar whose specialization is not reflected in the department's regular offerings (4) the conclusion by the department that the course meets a community need (5) the effort of the Communication Studies faculty to provide an interdisciplinary approach to an era or topic. The course is experimental in the sense that it is a ""one-time"" offering with the potential of repetition or modification, depending upon student, faculty and community response. On demand.

COMM-ST 400CB Cc: The African Diaspora In The Arts And Culture
This new cluster course will examine the expression of certain aspects of African culture in the African Diaspora. Black culture in the area now popularly termed ""The Black Atlantic,"" and in particular Western Africa, the Caribbean and certain parts of South and North America, will be examined. Special attention will be paid to visual and material culture, feminist and anti-apartheid literature, and religion and spirituality. African culture is a multi-layered and complex phenomenon. An understanding of African Diastolic culture involves an analysis of the effects of historical and sociological movements, the interpretation of written culture and the effects of Africa's response to colonial intrusion. Questions concerning the transmission and transformation of African cultures will be addressed by a close investigation of visual and material culture, literary texts, and cosmological constructions of African peoples. Students will be exposed to methodologies garnered from the Arts, Literature and Religious Studies. Offered: Fall Restrictions: Sophomore or above

COMM-ST 400CT Cluster Course: Healing And Cultural Diversity

COMM-ST 400G Special Studies In Communication Studies

COMM-ST 400M Special Studies In Communication Studies

COMM-ST 400N Special Studies

COMM-ST 400N Special Studies

COMM-ST 400Q Special Studies In Communication Studies

COMM-ST 400W Special Studies in Communication Studies

COMM-ST 400Z Special Studies

COMM-ST 402CD Cluster Course: American Social Film: Silver Screen & American Dream
This course will combine American social history and American film history. Using Hollywood entertainment films, the course will look at Hollywood as an indicator of social, political, and economic conditions in the U.S. from the early 1900s to the late 1950s. The main topics are war and the threat of war, poverty and affluence, racial tensions, censorship, and political zealotry. A paper is required, and a social history textbook, a film history textbook, a play by Arthur Miller and a collection of articles constitute core readings.

COMM-ST 403CE Cc: Radical Changes Since 1945
This cluster course will focus on modernism, post-modernism and expressionism in the visual arts and literature since World War II. Lectures address intellectual movements such as existentialism and formalism and cultural development such as increased impact of technology and mass media in contemporary society. By focusing on these movements, we hope to provide an integrated view of the literature and visual arts of the period and to draw upon analogous developments in contemporary architecture, music, philosophy and film. This course is offered as a cluster with ENGLISH 300CE.

COMM-ST 404CD World War I in Film: The World Made Modern
This cluster course examines World War I and its legacy through the lenses of international history and film studies. It explores the origins and conduct of the ""Great War,"" as it was called at the time, as well as its transforming effects on the modern international relations and the ongoing process of globalization. It also examines how the war spurred the growth of an infant motion picture industry, and how movies produced during the decades that followed helped shaping popular memories of the conflict-reflecting and shaping cultural discourses regarding the myth or reality of modern civilizational progress; the ethics of modern weaponry; the individual's place in mass society; constructions of class, race, and gender; and the meaning of national
identify in a globalizing world. The class will draw on selected history texts and an array of films and film clips. Cross listed with History 420CC

COMM-ST 405CD Cluster Course: Race in American Film
This course examines representations of race and ethnicity in American film from the silent era onward in mainstream and countercultural traditions. It explores how social, political, and economic conditions contribute to constructions of race and ethnicity. This course is offered as a cluster course with English 300CQ and history 300CF.

COMM-ST 406CD CC: Film Adaptation
The class will explore the process of adapting both fiction and non-fiction literary works into motion pictures. Students will examine the original literary source, then the interim screenplay and finally the completed motion picture. Offered: On Demand

COMM-ST 421P Multimedia & New Media Streaming
This course is designed to teach students the technology of streaming multimedia on the web and analyze the components of interactivity on the web. Students will examine the process of streaming, as well as the various advantages and disadvantages of streaming. Students will study the hardware, software, and technology involved in the different types of streaming media. Prerequisites: COMM-ST 100, COMM-ST 105P or equivalent is recommended.

COMM-ST 422P New Media Writing For The Web
This course is designed to teach students new media writing and the technology of reporting for online publications. Students will analyze the components of online writing, including the design, creation, and transfer of online digital media. Students will be introduced to digital formats and production tools. Students will examine the technology of writing for the web and the particular needs of new media writing for users of the web, techniques to transfer writing electronically, and how to use resources on the web for online reporters. Prerequisites: COMM-ST100,COMM-ST 105P or equivalent is recommended.

COMM-ST 423P Shooting Digital Video For The Web And New Media
This course is designed to teach students the fundamental concepts of digital video, with special consideration given to shooting the new media and the web. Students will learn the process of digital video, the types of file formats, technical considerations of displaying video on the web, and technical features of the digital video camera. This class will enable students to maximize the use of video in various new media digital formats (CD-ROM, DVD, etc.), as well as its use on the web. Prerequisites: COMM-ST 100 COMM ST 105P or equivalent is recommended.

COMM-ST 424P Web Radio
This course is designed to teach students the technology and underlying concepts in producing Web radio. A general overview of radio techniques and historical context, as well as practical and technical information will be given. Legal and copyright implications of making Web radio will be reviewed. Prerequisites: COMM-ST 100, COMM-ST 105P or equivalent is recommended.

COMM-ST 431 Colloquium In Interpersonal Dynamics
An examination of the practical application of communication principles and theories, with focus on one of the following: health, organizational, nonverbal, intrapersonal, conflict management, computer-mediated, or intercultural communication. Prerequisite: None Offered: On demand.

COMM-ST 432 Press, Politics And Public Policy

COMM-ST 444WI Intercultural Communication
A consideration of communication phenomena in multicultural settings. A study of the public forum with an emphasis on the interpersonal aspects of international, intercultural, and co-cultural communication. Lecture and discussion. On demand. Prerequisite: Successful completion of the WEPT.

COMM-ST 446 Principles Of Advertising
A survey of advertising as an industry and a career field, examining its history and development in America, and its application in mass and special media. Specific procedures are studies for linking the development of advertising strategies, messages and campaigns to the marketing process, and for evaluation and selection of appropriate media to carry the advertising message.

COMM-ST 447 Interactive and Social Media Advertising
This course examines advertising on the Internet as a form of interactive communication, with a special focus on social media and search engines. It addresses basic concepts, current issues, and the development of interactive advertising strategies and plans. The coverage includes interactivity, pricing models, online targeting strategies, search engine optimization and advertising,
social media advertising, and online video advertising.

COMM-ST 448 Principles Of Public Relations
An overview, presenting the function, purposes, procedures and practices of public relations, its role in society, industry, government and politics, and its potential as a career field. This is a survey course with primary emphasis on theory, supplemented with applied techniques.

COMM-ST 456 Electronic Journalism
A practical approach to the practices and principles of broadcasting news media, including preparing copy for microphone and camera, editing wire copy, reporting public affairs and public relations, and an intensive scrutiny of the concepts of freedom and responsibility as they apply to the press and current legislation. Prerequisite: COMM-ST 351. Fall and winter.

COMM-ST 457 Producing And Distributing Media
Survey of Contemporary practices used in the producing, funding and distribution of media for theatrical, broadcast, home video/dvd and web-based markets. Lectures, discussion and projects. Prerequisites: None

COMM-ST 458WI Publicity, Promotion And The Media
Writing intensive. A study of controlled and uncontrolled (public) media and their use to effect motivation of various target audiences, and alteration of attitudes, opinions, and beliefs in special publics; examination of the theory and nature of messages and materials generated by PR departments or counseling firms; analysis and practice in development of specialized communications materials, such as house organs, news releases, publicity and speeches to gain reaction and support from specialized groups. Prerequisite: COMM-ST 351 and successful completion of the WEPT. Offered: Fall.

COMM-ST 462 Public Broadcasting
A study of the development of public broadcasting, its position and responsibilities in the world of modern communications. Programming and operations concepts and philosophies of public broadcast facilities will be studied and analyzed. Prerequisite: COMM-ST 220. Offered: On demand.

COMM-ST 466 Advanced Electronic Journalism
An advanced study of television and Internet news gathering, field production and performance for electronic media. Prerequisite: COMM-ST 456 or consent of instructor. Offered: Spring

COMM-ST 466 Advanced Electronic Journalism
An advanced study of television and Internet news gathering, field production and performance for electronic media. Prerequisite: COMM-ST 456 or consent of instructor. Offered: Spring

COMM-ST 470 Directing
An advanced course in video techniques with emphasis on creating complex formats for broadcasting, recording and performance. Lecture, discussion, and laboratory. Prerequisite: COMM-ST 250. Offered: Spring.

COMM-ST 471 Advanced Media Production
An advanced course in media production techniques involving knowledge and practical use of video, film and sound equipment to create professionally competitive media productions. Lecture, discussion, laboratory and research. Prerequisites: COMM-ST 250, COMM-ST 373, and COMM-ST 354 or Instructor Consent. Offered: Fall

COMM-ST 473 Directing Actors and Scenes
This intensive workshop class seeks to deepen the student director's understanding of the acting process and provide ways of clearly and creatively communicating with actors. The course will deepen students' understanding of blocking scenes and designing camera coverage. It will explore the role of the director as a guiding creative force in the making of a film through collaboration and provide techniques for scene analysis and preparation. Students will cast, rehearse and present a live performance for their final project and design appropriate camera coverage. Prerequisites: Com Studies 250.

COMM-ST 478 Media Law
A comprehensive examination of the law as it pertains to advertising, public relations, journalism, commercial and electronic media, broadcast regulatory agencies, corporate speech and corporate participation in elections. Students will study topics that include the First Amendment, defamation and privacy. Court opinions and legislation will be the course's primary focus, however students will also examine contemporary and historic theory of free expression. Offered: On demand.

COMM-ST 483 Research Seminar In Communication Studies
This is the departmental capstone course and is required for majors in their last semester of their senior year. The course summarizes and extends student's theoretical and applied understanding of the role of communication competence in the work place and beyond. The course also focuses on refining student's research competencies and their appreciation of the cultural role
of modern communication methods. Offered: Fall and Spring.

**COMM-ST 484 Communication Studies Activities**
Internships opportunities for advanced students involved in community and campus activities. Student must receive approval of advising professor in semester prior to enrollment. No more than four hours with any one project. Fall, winter and summer.

**COMM-ST 498 Special Problems In Communication Studies**
Research and/or projects for advanced upper class students. Student must receive approval of advising professor in semester prior to enrollment. No more than any one instructor. Offered every semester.

**Criminal Justice and Criminology (CJC)**

**CJC 101 Introduction To Criminal Justice**
This introductory overview course is designed to familiarize students with the three main components of the adult criminal justice system: police, courts, and corrections. The course will investigate the viewpoints of offenders, victims, social scientists, the general public, and workers in the system on diverse issues of social control, criminal behavior, treatment and punishment.

**CJC 101P Introduction To Criminal Justice**
This introductory overview course is designed to familiarize students with the three main components of the adult criminal justice system: police, courts, and corrections. The course will investigate the viewpoints of offenders, victims, social scientists, the general public, and workers in the system on diverse issues of social control, criminal behavior, treatment and punishment.

**CJC 250 Introduction To Policing**
A comparison of law enforcement and peace-keeping functions of the police provides a basic theme for the course, with examination of several topics related to police accomplishing these functions. Some of the topics covered include police discretion, police professionalism, the police officer as a bureaucratic agent, and police-community relations.

**CJC 250P Introduction To Policing**
A comparison of law enforcement and peace-keeping functions of the police provides a basic theme for the course, with examination of several topics related to police accomplishing these functions. Some of the topics covered include police discretion, police professionalism, the police officer as a bureaucratic agent, and police-community relations.

**CJC 260 Principles & Practices of Criminal Courts**
The course examines the American criminal judicial system, including the history, philosophy, and changing nature of criminal courts. The activities of lawyers, judges, and related professionals are emphasized, and current topics involving the criminal court are discussed.

**CJC 265 Delinquency And Juvenile Justice**
This course focuses on the nature, extent and theoretical explanations of delinquency and the history and philosophy behind the juvenile justice system in terms of the roles played by law enforcement, juvenile courts, and corrections. Juvenile groups such as status offenders, delinquents, gang members, victims, and juveniles adjudicated as adult criminals will also be examined.

**CJC 265P Delinquency And Juvenile Justice**
This course focuses on the nature, extent and theoretical explanations of delinquency and the history and philosophy behind the juvenile justice system in terms of the roles played by law enforcement, juvenile courts, and corrections. Juvenile groups such as status offenders, delinquents, gang members, victims, and juveniles adjudicated as adult criminals will also be examined.

**CJC 265P Juvenile Justice System**
A survey of the legal aspects of the juvenile justice system in America dealing with the history, philosophy, jurisprudence and treatment of delinquents, and neglected, abused, dependent and adoptive children. Pace class to meet one night a week from 6:00-10:00 p.m. and one weekend: Fri E6:00-10:00; Sat 8:00-5:00; Sun 1:00-5:30 for eight weeks in either fall or winter semester. Part of PACE Block -- Juvenile Justice and the Family.

**CJC 270 Principles Of Corrections**
This course explores adult institutional and community-based corrections in the United States. Major areas examined include the evolution of corrections, the process of correctional reform, adult offenders and prison culture, treatment and rehabilitation of
offenders, intermediate sanctions, and correctional workers.

**CJC 270 Principles Of Corrections**  
This course explores adult institutional and community-based corrections in the United States. Major areas examined include the evolution of corrections, the process of correctional reform, adult offenders and prison culture, treatment and rehabilitation of offenders, intermediate sanctions, and correctional workers.

**CJC 300 Structural Theories Of Crime**  
The impact of sociodemographic, geographic, economic, political variables and sex roles in the occurrence and distribution of crime.

**CJC 315 Crime, Criminals And Victims**  
This course addresses the study of crime, criminals and victims. It examines the relationship between victims and offenders. Special treatment is given to criminological as well as victimological theories. A segment of the course will address the sporadic nature of juvenile crime. The course will examine viable strategies to reduce levels of victimization. In the final analysis the course will offer crime prevention strategies.

**CJC 316 Race, Class and Justice**  
This course examines the intersection of race and class as it relates to crime and justice. Specifically, the course focuses on race and class in relation to criminological theory and the application of justice system practices and policies.

**CJC 317 Policies Of Drug Use And Control**  
Utilizing both historical and contemporary information, this course provides an assessment of the "drug problem" in the U.S. and policies of control developed in response to the problem. Drug use criminalization, legalization, medical treatment, and prevention strategies and related issues are considered in regard to scientific knowledge related to the patterns, causes, and impact of substance abuse. Also offered as SOCIOL 317. Offered annually.

**CJC 319 Theoretical Criminology**  
A comprehensive examination of the major criminology theories, their philosophical assumptions, and the socio-historical context in which they were articulated. Also offered as SOCIOL 319.
CJC 350 Social Deviance
The dominant sociological perspectives on deviance will be discussed with special attention given to the processes that define behavior and persons as deviant and the impact of such definitions on social relationships and identity. Also offered as Sociology 320.

CJC 350 Social Deviance
The dominant sociological perspectives on deviance will be discussed with special attention given to the processes that define behavior and persons as deviant and the impact of such definitions on social relationships and identity. Also offered as Sociology 320.

CJC 351 Policing In The Community
The purpose of this class is to introduce the student to police operations and the effectiveness of different police programs. The material discussed in class focuses on empirical evaluations of police effectiveness, and the role of the police in today's society. This class is divided into four broad areas: the nature and effectiveness of patrol; criminal investigations; special operations including crackdowns, responses to domestic assaults, and hot spot policing; and the latest crime prevention strategies, such as community oriented policing and problem solving.

CJC 351 Policing In The Community
The purpose of this class is to introduce the student to police operations and the effectiveness of different police programs. The material discussed in class focuses on empirical evaluations of police effectiveness, and the role of the police in today's society. This class is divided into four broad areas: the nature and effectiveness of patrol; criminal investigations; special operations including crackdowns, responses to domestic assaults, and hot spot policing; and the latest crime prevention strategies, such as community oriented policing and problem solving.

CJC 353 Ethical And Controversial Issues In Policing
This course covers various ethical and controversial issues confronting law enforcement agencies and examines ethical dilemmas involved in police decision-making with an emphasis on current controversial issues. Topics to be addressed include police misconduct; stop and frisk practices; search and seizure; racial profiling; use of excessive and deadly force; and vehicle pursuits.

CJC 353 Ethical And Controversial Issues In Policing
This course covers various ethical and controversial issues confronting law enforcement agencies and examines ethical dilemmas involved in police decision-making with an emphasis on current controversial issues. Topics to be addressed include police misconduct; stop and frisk practices; search and seizure; racial profiling; use of excessive and deadly force; and vehicle pursuits.

CJC 355 Crime And Public Policy
This course addresses how society has responded to the crime problem during changing social, historical, political and economic contexts. Special attention will be given to how society has reacted to crime (with liberal treatment and rehabilitation or conservative punitive approaches) from the 1920's to the present.

CJC 355 Crime And Public Policy
This course addresses how society has responded to the crime problem during changing social, historical, political and economic contexts. Special attention will be given to how society has reacted to crime (with liberal treatment and rehabilitation or conservative punitive approaches) from the 1920's to the present.

CJC 355P Crime And Public Policy
This course addresses how society has responded to the crime problem during changing social, historical, political and economic contexts. Special attention will be given to how society has reacted to crime (with liberal treatment and rehabilitation or conservative punitive approaches) from the 1920's to the present.

CJC 355P Crime And Public Policy
This course addresses how society has responded to the crime problem during changing social, historical, political and economic contexts. Special attention will be given to how society has reacted to crime (with liberal treatment and rehabilitation or conservative punitive approaches) from the 1920's to the present.

CJC 360 Criminal Behavior Systems
A first-hand account of typologies drawn from empirical studies of professional criminals, organized crime, white-collar offenders, political criminals and street-level offenders such as the burglar, thief, murderer, drug dealer, rapist, or armed robber.

CJC 360 Criminal Behavior Systems
A first-hand account of typologies drawn from empirical studies of professional criminals, organized crime, white-collar offenders, political criminals and street-level offenders such as the burglar, thief, murderer, drug dealer, rapist, or armed robber.
CJC 363 Introduction To Statistics In Sociology/Criminal Justice
A first course in the statistical analysis of quantitative data. Course emphasizes descriptive statistics, probability theory, parameter estimation, bivariate hypothesis testing, and computer applications. Prerequisites: MATH 110, MATH 116 or an equivalent. Offered: Fall

CJC 363 Introduction To Statistics In Sociology/Criminal Justice
A first course in the statistical analysis of quantitative data. Course emphasizes descriptive statistics, probability theory, parameter estimation, bivariate hypothesis testing, and computer applications. Prerequisites: MATH 110, MATH 116 or an equivalent. Offered: Fall

CJC 371 Community Corrections
This course will examine intermediate sanctions in the United States, such as probation, halfway houses, boot camps, among others. Specifically, the origin and proliferation of the use of corrections in the community will be explored in depth. The effectiveness of several major community correctional strategies will be explored through a review of the research literature base. Several issues will be highlighted including (but not limited to ) ethical constraints, political problems, and treatment effectiveness in light of the use of community sanctions. Offered: One time every other year

CJC 371 Community Corrections
This course will examine intermediate sanctions in the United States, such as probation, halfway houses, boot camps, among others. Specifically, the origin and proliferation of the use of corrections in the community will be explored in depth. The effectiveness of several major community correctional strategies will be explored through a review of the research literature base. Several issues will be highlighted including (but not limited to ) ethical constraints, political problems, and treatment effectiveness in light of the use of community sanctions. Offered: One time every other year

CJC 373 Institutional Corrections
This course will examine several aspects of the American Prison, specifically, current issues in the management and growth of the prison industry will be reviewed. These issues will include major constitutional applications, the management of special populations within the prison environment, and a general review of several aspects of day-to-day prison life. These issues and others will be explored through a review of the research literature base germane to prisons and institutions.

CJC 373 Institutional Corrections
This course will examine several aspects of the American Prison, specifically, current issues in the management and growth of the prison industry will be reviewed. These issues will include major constitutional applications, the management of special populations within the prison environment, and a general review of several aspects of day-to-day prison life. These issues and others will be explored through a review of the research literature base germane to prisons and institutions.

CJC 380 Psycho-Social Determinants of Crime & Delinquency
This course offers an interdisciplinary approach to the study of crime and delinquency outlining biological, developmental, psychological, social-psychological, and societal factors associated with criminal behavior. The course also focuses on ways in which these factors may be integrated to solve, explain, and prevent crimes.

CJC 390 New Dimensions In Criminal Justice
Examination of contemporary topics, issues or problems related to the development of justice and/or operations in response to criminal and related behaviors addressed by the justice system. May be repeated for credit. Prerequisites: None. Offered: Every semester.

CJC 390 New Dimensions In Criminal Justice
Examination of contemporary topics, issues or problems related to the development of justice and/or operations in response to criminal and related behaviors addressed by the justice system. May be repeated for credit. Prerequisites: None. Offered: Every semester.

CJC 401 Criminal Justice & Criminology in Popular Media
This course examines criminology and criminal justice as it is represented in popular film to explore critically the impact media has on the public's perception of the criminal justice system, the origin of criminal behavior, and the broad sociological constructs of criminology. A key focus is the media's power to shape criminal justice policy and practice.

CJC 421 Criminal Behavior In The United States
A description and causal analysis of complex forms of criminal behavior in contemporary American society; included for study will be organized and professional crime, white collar crime, homicide, street crime, and crimes against morals involving sex, alcohol, drugs and gambling.
CJC 421P Criminal Behavior In The United States
A description and casual analysis of complex forms of criminal behavior in contemporary American society; included for study will be organized and professional crime, white collar crime, homicide, street crime, and crimes against morals involving sex, alcohol, drugs and gambling.

CJC 421P Criminal Behavior In The United States
A description and casual analysis of complex forms of criminal behavior in contemporary American society; included for study will be organized and professional crime, white collar crime, homicide, street crime, and crimes against morals involving sex, alcohol, drugs and gambling.

CJC 424 The Death Penalty In America
This course takes a sociological look at the most extreme punishment currently in use in the United States. Society debates its value without giving much weight to the research which social science conducts. Indeed, the political domain frequently misrepresents the data that is available. The course evaluates the adequacy of the research and separates the strands of the debates in order to understand the role of the death penalty in our society. Prerequisite: CJC 101

CJC 429 Restorative Justice
This course is an introduction to the concept of restorative justice. The course examines the roots of the concept, its theoretical perspective, and its applications in juvenile justice, mediation and correctional settings.

CJC 429 Restorative Justice
This course is an introduction to the concept of restorative justice. The course examines the roots of the concept, its theoretical perspective, and its applications in juvenile justice, mediation and correctional settings.

CJC 435WI Gender And Law
This course examines the contemporary legal rights and obligations of women in light of the historical relationships between the social status of women and their legal status. Topics investigated include proprietary and contractual rights, family law, employment practices, educational opportunities, and women as victims and perpetrators of crime. Prerequisite: Successful Completion of the Wept Test

CJC 440 Hate & Bias Crimes
The purpose of this course is to examine the development and enforcement of hate crime law within our legal system. Discussion focuses on the causes and consequences of hate crimes, the constitutional issues associated with bias crime statutes, and the effectiveness of formal and informal social controls for eliminating hate and bias crimes.

CJC 450 Women, Crime And Criminal Justice
This course will focus on the experiences of women and girls with crime in America. The primary areas studied will be females as victims, offenders, and professionals in the criminal justice system. Various criminological theories and research will also be examined in light of gender.

CJC 450 Women, Crime And Criminal Justice
This course will focus on the experiences of women and girls with crime in America. The primary areas studied will be females as victims, offenders, and professionals in the criminal justice system. Various criminological theories and research will also be examined in light of gender.

CJC 470WI Capstone: Criminal Justice And Criminology
This course is designed to integrate student's program of study in the major of criminal justice and criminology. The class examines current conditions of the justice system with respect of race, gender and social class. This course satisfies the writing intensive requirement for the General Degree Requirements of the College. Prerequisites: WEPT, course taken in student's last semester. Semester offered: Fall/Winter

CJC 470WI Capstone: Criminal Justice And Criminology
This course is designed to integrate student's program of study in the major of criminal justice and criminology. The class examines current conditions of the justice system with respect of race, gender and social class. This course satisfies the writing intensive requirement for the General Degree Requirements of the College. Prerequisites: WEPT, course taken in student's last semester. Semester offered: Fall/Winter

CJC 475 White Collar Crime
This course examines activities variously called white-collar crimes, crimes of privilege, corporate and government crimes, and upperworld crimes. The purposes of the course are (1) to describe, analyze, and assess social impact of these offenses, (2) to examine the capacity of existing theories in criminology and social deviance to account for those activities, (3) to describe the responsibilities, powers, and activities of those agencies which have jurisdiction over them, and (4) to assess the effectiveness of
various legal sanctions in controlling such activities and to review the problems involved in legislation intended to achieve that control.

**CJC 475 White Collar Crime**
This course examines activities variously called white-collar crimes, crimes of privilege, corporate and government crimes, and upperworld crimes. The purposes of the course are (1) to describe, analyze, and assess social impact of these offenses, (2) to examine the capacity of existing theories in criminology and social deviance to account for those activities, (3) to describe the responsibilities, powers, and activities of those agencies which have jurisdiction over them, and (4) to assess the effectiveness of various legal sanctions in controlling such activities and to review the problems involved in legislation intended to achieve that control.

**CJC 475P White Collar Crime**
This course examines activities variously called white-collar crimes, crimes of privilege, corporate and government crimes, and upperworld crimes. The purpose of the course are (1) to describe, analyze, and assess social impact of these offenses, (2) to examine the capacity of existing theories in criminology and social deviance to account for those activities, (3) to describe the responsibilities, powers, and activities of those agencies which have jurisdiction over them, and (4) to assess the effectiveness of various legal sanctions in controlling such activities and to review the problems involved in legislation intended to achieve that control. Part of PACE Block --Justice and Society. PACE class to meet one night a week from 6:00-10:00 p.m. and one weekend: Fri. E6:00-10:00; Sat 8:00-5:00; Sun 1:00-5:30 for eight weeks in either fall or winter semester.

**CJC 475P White Collar Crime**
This course examines activities variously called white-collar crimes, crimes of privilege, corporate and government crimes, and upperworld crimes. The purpose of the course are (1) to describe, analyze, and assess social impact of these offenses, (2) to examine the capacity of existing theories in criminology and social deviance to account for those activities, (3) to describe the responsibilities, powers, and activities of those agencies which have jurisdiction over them, and (4) to assess the effectiveness of various legal sanctions in controlling such activities and to review the problems involved in legislation intended to achieve that control. Part of PACE Block --Justice and Society. PACE class to meet one night a week from 6:00-10:00 p.m. and one weekend: Fri. E6:00-10:00; Sat 8:00-5:00; Sun 1:00-5:30 for eight weeks in either fall or winter semester.

**CJC 476 Seminar In Criminal Justice And Criminology Issues**
This course is an advanced exploration of the relationship between the criminal justice system and criminal behavior from at least one of the following perspectives: psychological, sociological, economic, legal, political or administration/ management. Will include discussions and analysis of contemporary readings and on-going research in the selected perspective.

**CJC 476 Seminar In Criminal Justice And Criminology Issues**
This course is an advanced exploration of the relationship between the criminal justice system and criminal behavior from at least one of the following perspectives: psychological, sociological, economic, legal, political or administration/ management. Will include discussions and analysis of contemporary readings and on-going research in the selected perspective.

**CJC 483 Methods Of Sociological Research**
A seminar which explores the interrelationships between sociology theory, research methods and statistics. May focus on major contemporary issues building on and integrating knowledge obtained in previous courses. Also offered as SOCIOL 362.

**CJC 483 Methods Of Sociological Research**
A seminar which explores the interrelationships between sociology theory, research methods and statistics. May focus on major contemporary issues building on and integrating knowledge obtained in previous courses. Also offered as SOCIOL 362.

**CJC 486 Methods Of Program Evaluation**
This course focuses on applying research methodological techniques to evaluation of programs designed to respond to social problems and issues (e.g., drug use, crime, delinquency, indigent care). Topics of interest to those charged with designing and executing program evaluations are considered, including types of program evaluation assessment, use of time series models, special research issues for program evaluation, and generating and testing hypotheses from program objectives. Also offered as SOCIOL 486. Offered annually.
CJC 488  Mentoring Juvenile Justice System-Involved Youth  
Youth mentoring experience in a juvenile justice setting with required training and classroom study. Prerequisites: successful background check completion. Offered: Annually

CJC 490  Directed Studies In Criminal Justice And Criminology  
Individual research and study in the student's field of interest as approved and directed by major professors. The work involves examination and reporting of selected problems affecting the various agencies of our legal system. Only two of the 490 sequence courses can be applied to the major. A. Law Enforcement B. Court Operations and Administration C. Corrections D. Legal Theory and Philosophy E. Criminological Theory F. Sociology of Law.

CJC 490  Directed Studies In Criminal Justice And Criminology  
Individual research and study in the student's field of interest as approved and directed by major professors. The work involves examination and reporting of selected problems affecting the various agencies of our legal system. Only two of the 490 sequence courses can be applied to the major. A. Law Enforcement B. Court Operations and Administration C. Corrections D. Legal Theory and Philosophy E. Criminological Theory F. Sociology of Law.

CJC 491  Internship In Criminal Justice  
Intern experience under faculty supervision in local, state, federal or private agencies working with justice system involved offenders. Prerequisites: CJC 101, junior standing prior consent and arrangement. Offered: Every semester.

CJC 491  Internship In Criminal Justice  
Intern experience under faculty supervision in local, state, federal or private agencies working with justice system involved offenders. Prerequisites: CJC 101, junior standing prior consent and arrangement. Offered: Every semester.

CJC 492  Topics In Criminal Justice  
Specialized, short courses with focused examination of particular topics germane to the study of the justice system. May be repeated for credit. Prerequisites: None. Offered: Every semester.

CJC 492  Topics In Criminal Justice  
Specialized, short courses with focused examination of particular topics germane to the study of the justice system. May be repeated for credit. Prerequisites: None. Offered: Every semester.

Economics (ECON)  
ECON 100  Economics Explained  
Everything you need to know about how the economy works and where it's going. This course simplifies and clarifies the vocabularies and concepts used to describe all the important economic phenomenon in our society today: unemployment, trade deficits, government budget deficits or surpluses, inflation, investments, and customer debt. It describes where we've been (economically) and assess the future of the economic system we call capitalism.

ECON 101  Essentials Of American Capitalism  
This course represents an overview of the principles of economics and their relation to current economic events. It is designed to meet state requirements for elementary education certification as well as to provide a general introduction to economics for non-business, non-engineering, and non-economics majors. Both macroeconomic and microeconomic issues will be covered. Every semester.

ECON 150  Introduction To Labor Studies  
This interdisciplinary course offered by The Institute for Labor Studies, covers the role of workers and the labor movement in society and the American political and economic system. Students will gain an overview, from a labor viewpoint, of the organization of work and workers, collective bargaining and representation, and labor's rights, roles, and strategies in a democracy and in the global economy. A particular focus will be the image of the working class and organized labor in the media and among public perception. Prerequisite: None. Offered: Yearly

ECON 201  Introduction To Economics I  
Economics I deals primarily with macroeconomic or national economic concepts, the economics of the determination of recession, inflation, maintenance of full employment and economic growth, with an emphasis upon the economics of modern Keynesian analyses. It further introduces the economics of Marx and Ayres and discusses relevant and current economic issues. Economics 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

ECON 201  Introduction To Economics I  
Economics I deals primarily with macroeconomic or national economic concepts, the economics of the determination of
recession, inflation, maintenance of full employment and economic growth, with an emphasis upon the economics of modern Keynesian analyses. It further introduces the economics of Marx and Ayres and discusses relevant and current economic issues. Economics 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

**ECON 201 Introduction To Economics I**
Economics I deals primarily with macroeconomic or national economic concepts, the economics of the determination of recession, inflation, maintenance of full employment and economic growth, with an emphasis upon the economics of modern Keynesian analyses. It further introduces the economics of Marx and Ayres and discusses relevant and current economic issues. Economics 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

**ECON 202 Introduction To Economics II**
Economics II deals primarily with microeconomics, firm analysis, the principles of demand, supply, elasticity, price determination, costs, income distribution, market structures, trade, and other related social, economic issues. ECON 201, ECON 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

**ECON 203 Current Economic Issues**
Each of these one-hour courses will deal with one selected topic. Students enrolled should have some background in the social sciences. A maximum of three Economics 395 courses will apply towards the department's graduation requirements for a major.

**ECON 204 The Economics Of Public Process And Private Choice I**
This film/tape course and ECON 397B are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting he 27 minimum required departmental hours. The J.K. Galbraith film series and text, The Age of Uncertainty, provide the central theme for this course.

**ECON 205 The Economics Of Public Process And Private Choice II**
This film/tape course and ECON 397A are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The Milton Friedman film series, Free to Choose, provides the central theme for this course.

**ECON 206 Labor Economics**
An examination of the theories of wage determination, the economic effects of wage determination upon the wage structure, the distribution of national income, employment, and an introduction to collective bargaining. Prerequisite: ECON 302. On request.

**ECON 300CM Cluster Course: Mexico, Central America And The Human Condition**
Faculty from at least two different departments (one of which must be a department in the Division of Humanities, including History) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the program's advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A.

**ECON 300CS Cluster Course**
Faculty from at least two different departments (one of which must be a department in the Division of Humanities, including History) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the program's advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A.
ECON 302 Macroeconomic Analysis
The economic system as a whole and the ways in which its functioning is affected by the behavior of the interdependent sectors of which it is composed. Major factors affecting national income; use of sectoral accounts in analyzing economic prospects. Offered: Every Semester Prerequisite: ECON 201 and ECON 202

ECON 302 Macroeconomic Analysis
The economic system as a whole and the ways in which its functioning is affected by the behavior of the interdependent sectors of which it is composed. Major factors affecting national income; use of sectoral accounts in analyzing economic prospects. Offered: Every Semester Prerequisite: ECON 201 and ECON 202

ECON 302 Macroeconomic Analysis
The economic system as a whole and the ways in which its functioning is affected by the behavior of the interdependent sectors of which it is composed. Major factors affecting national income; use of sectoral accounts in analyzing economic prospects. Offered: Every Semester Prerequisite: ECON 201 and ECON 202

ECON 303 Microeconomic Analysis
Functioning of the individual enterprise and households. Problems confronting business enterprises operating under different types of market situations; influence of the prices factors of production on methods of production; effects that changes in income levels and in relative prices have on sales of different types of goods and services. Every semester. Prerequisite: ECON 201 and ECON 202 Offered: Every Semester

ECON 303 Microeconomic Analysis
Functioning of the individual enterprise and households. Problems confronting business enterprises operating under different types of market situations; influence of the prices factors of production on methods of production; effects that changes in income levels and in relative prices have on sales of different types of goods and services. Every semester. Prerequisite: ECON 201 and ECON 202 Offered: Every Semester

ECON 303H Special Issues In Economic
Readings and discussions of selected economic topics. Content varies over time as economic conditions change. Designed for outstanding students in Principles of Economics. Prerequisites: ECON 202 and/or ECON 202. Semester offered: Fall

ECON 311 Economics for Nonprofit Managers
This course introduces microeconomics to aspiring nonprofit managers. After reviewing the nonprofit organization's role in the U.S. economy, students will learn a variety of tools they can use to weigh alternatives, examine risk, and make organizational decisions. With these tools and a solid introduction to microeconomics, students will be prepared to analyze economic events, predict outcomes, and make sound decisions. Offered: Spring

ECON 314 Race, Class And Gender: Theory, History, And Policy
Analyzes the ways in which race and gender discrimination result in differences in opportunities and outcomes in society. Begins with a historical overview of the origins of modern racism and patriarchy, and their relation to the rise and development of capitalism. Discursive and nondiscursive factors are investigated. Alternative theoretical approaches to understanding the intersections of race, class, and gender are evaluated. Policy debates on issues related to affirmative action, education, welfare, employment, and others are considered. Prerequisite: None Offered: On Demand

ECON 323P Administration In The Service Industry
Students will examine the nature of service and the scope of administration within the service industry. Additionally, the course will examine the development of service and the service economy. This course may not be used by students to fulfill requirements for the major in Economics or a Concentration in Commercial Economics. Prerequisites: None. Offered: Every Semester.

ECON 336 The Kansas City Economy
This course explores the Kansas City economy in depth from both a micro and macro perspective. The macro approach details how important the Kansas City economy is to the state of Missouri, to the US economy, and in the international arena. The micro approach details the contribution of the many different sectors of the KC area to the overall local economy. Prerequisite(s): ECON 100, ECON 201 or ECON 202 Offered: Winter Restrictions: None

ECON 341 Union Leadership and Administration
This course focuses on the roles and challenges of union leadership in a changing environment. Topics include the union leaders' role as a representative, organizer and educator as well as administrative responsibilities within the union and the relationship with enterprise management in both adversarial and participatory situations. Options for leadership styles and organizational models will be discussed and explored in both theory and practice. Leaders will develop their skills of motivation, speaking, strategic planning and managing complex campaigns and diverse organizations. This course is part of the Certificate Program in
Labor Studies and is offered on the University of Missouri Interactive Video Network at UMKC, UMSL, and UMC.

**ECON 343P Resource Acquisition And Distribution In The Hospitality Industry**
This course will examine economic policy that is the basis for materials acquisition policies and practices within the hospitality industry. Additionally, students will study materials flow from source to final user. Special emphasis will be placed on policies and procedures that maximize resource usage. This course may not be used by students to fulfill requirements for the major in Economics or a Concentration in Commercial Economics. Prerequisites: None. Offered: Fall.

**ECON 353 Financial Analysis And The Economy**
This course examines techniques of financial evaluation used by individuals, corporate managers, and portfolio analysts. Focus of the course will be on the interaction of the mechanics of analytical methods and economic activity. Topics covered will include individual portfolio building, asset evaluation, and financial market theory. Prerequisites: ECON 201 and ECON 202. Offered: Winter odd years.

**ECON 395A Economic Issues**

**ECON 395B The Economics Of Law**

**ECON 395C The Economics Of Energy**

**ECON 395D Economic Issues**

**ECON 395E The Economics Of Aging**

**ECON 395F The Economics Of Minorities**

**ECON 395G The Economics Of Poverty**

**ECON 395H The Economics Of The Arts**
An analysis of the past and present policies regarding the financing of the Arts.

**ECON 395I Views Of A Good Society**
This course looks at different views of a good society from the perspective of Utopian economics. The materials dealt with in the course will be drawn from Utopian books, supplemented with material drawn from cartoons, art, literature, poetry, film, and music. Prerequisite: None Offered: On Demand

**ECON 397A The Economics Of Public Process And Private Choice I**
This film/tape course and ECON 397B are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The J.K. Galbraith film series and text, The Age of Uncertainty, provide the central theme for this course.

**ECON 397B The Economics Of Public Process And Private Choice II**
This film/tape course and ECON 397A are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The Milton Friedman film series, Free to Choose, provides the central theme for this course.

**ECON 402 Labor and the Global Political Economy**
This course will examine current issues, trends, and developments which are shaping labor in today's global economy. Students will analyze the shifting balance of power between labor and capital, the role of government, and evaluate the strategic options for workers and unions operating in a global environment.
**ECON 404R** American Economic History Since 1865  
The course deals with the emergence of Industrial American since 1865. It covers the rise to dominance of the large modern corporation, the problem of economic and social instability and stability, the rise of trade associations, cartels, and government regulation in an unstable economy, and the evolution of American economic policy and national economic planning. Offered: On demand. Prerequisites: ECON 201 and ECON 202

**ECON 404RR** American Labor History  
This course examines history of work and the working class in the U.S. from 1750 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers' relationships with other social groups, and the role played by gender, race, and ethnicity in uniting or dividing the working class. Also cross-listed with History 366RR. Prerequisite: ECON 201 and ECON 202

**ECON 406WI** History Of Economic Thought  
Analysis of basic concepts of economic thought, their historical sources and significance. Prerequisite: Successful completion of WEPT Test. Offered: Every semester.

**ECON 412** International Trade And Development  
This course emphasizes the global allocation of resources and distribution of income in the analysis of economic development and international trade. Major topics include various theories of economic development, comparative advantage, terms of trade, tariffs, quotas, economic integration and the use of trade to foster economic development. Prerequisite: ECON 100

**ECON 412** International Trade And Development  
This course emphasizes the global allocation of resources and distribution of income in the analysis of economic development and international trade. Major topics include various theories of economic development, comparative advantage, terms of trade, tariffs, quotas, economic integration and the use of trade to foster economic development. Prerequisite: ECON 100

**ECON 420** Environment, Resources And Economic Growth  
This course focuses on the theory and policy issues involved in resource reation and depletion; environmental destruction, preservation and recreation; and the interrelation of these problems of and prospects for economic growth. Prerequisite: ECON 202 Offered: On request

**ECON 420** Environment, Resources And Economic Growth  
This course focuses on the theory and policy issues involved in resource reation and depletion; environmental destruction, preservation and recreation; and the interrelation of these problems of and prospects for economic growth. Prerequisite: ECON 202 Offered: On request

**ECON 420** Mathematical Economics  
An introduction to mathematical methods as applied to the questions addressed by economists. The principal methods to be applied are matrix algebra and differential calculus in the context of optimization. Other topics may include integral calculus, differential equations, difference equations, or linear and non-linear programming. Prerequisites: ECON 301, ECON 302 and MATH 210

**ECON 423P** Legal & Social Issues Of The Hospitality Industry  
This course will investigate societal and economic issues that have influenced the development of significant industry legal issues. Additionally, students will examine laws pertinent to the hospitality industry and investigate the relationship of these legal issues to historical and current societal issues. This course may not be used by students to fulfill requirements for the major in Economics or a Concentration in Commercial Economics. Prerequisites: None. Offered: Winter.

**ECON 433P** Commercial Economics Aspects Of The Hospitality Industry  
This course will examine economic policies that are the basis for accounting and financial practices within the hospitality industry. Additionally, students will explore managerial accounting essentials and examine their use in planning, controlling, and developing budgets within the hospitality industry. This course may not be used by students to fulfill requirements for the major in Economics or a Concentration in Commercial Economics. Prerequisites: None. Offered: Winter.

**ECON 435** Public Finance  
Problems of public and private sector decision making of revenue-expenditure policies and an examination of the actual legal, political and economic policies for revenues and expenditures of federal, state and local governments. Prerequisite: ECON 302. On request.

**ECON 435** Public Finance  
Problems of public and private sector decision making of revenue-expenditure policies and an examination of the actual legal, political and economic policies for revenues and expenditures of federal, state and local governments. Prerequisite: ECON 302.
On request.

ECON 437 State And Local Government Finance
This course investigates the role, problems and relative importance of municipal governments in the United States. Such areas as the demand for public services, tax and expenditure policies, and intergovernmental fiscal relations will be explored in detail. Case studies of state and local governments will be introduced to emphasize the problems and proposed solutions arising in modern municipal governments. Prerequisite: ECON 302. On request.

ECON 437 State And Local Government Finance
This course investigates the role, problems and relative importance of municipal governments in the United States. Such areas as the demand for public services, tax and expenditure policies, and intergovernmental fiscal relations will be explored in detail. Case studies of state and local governments will be introduced to emphasize the problems and proposed solutions arising in modern municipal governments. Prerequisite: ECON 302. On request.

ECON 450R Regional Economics
Contemporary policy approaches to regional growth and decline are analyzed in this course. Prerequisite: ECON 302 Semester offered: On request

ECON 450R Regional Economics
Contemporary policy approaches to regional growth and decline are analyzed in this course. Prerequisite: ECON 302 Semester offered: On request

ECON 458 Urban Economics
An inquiry into the economics of location decisions and the influence of these on urban growth and on the real estate market; the evaluation of urban transportation and other public services; an examination of economic development of ghetto neighborhoods. Prerequisite: ECON 302 or its equivalent, or by special permission of the instructor. On request.

ECON 458 Urban Economics
An inquiry into the economics of location decisions and the influence of these on urban growth and on the real estate market; the evaluation of urban transportation and other public services; an examination of economic development of ghetto neighborhoods. Prerequisite: ECON 302 or its equivalent, or by special permission of the instructor. On request.

ECON 475 Economics Institutions and Policies
This course focuses on the economic system analysis of labor market phenomena in the context of historical-institutional development and labor market policies, this course is offered winter semester only. Prerequisites: Econ 201 and Econ 202 or consent of instructor.

ECON 475 Economics Institutions and Policies
This course focuses on the economic system analysis of labor market phenomena in the context of historical-institutional development and labor market policies, this course is offered winter semester only. Prerequisites: Econ 201 and Econ 202 or consent of instructor.

ECON 487 History Of Labor Movements
This course is concerned with the early formation and the transformation of labor unions given the changing American industrial climate. Study will include early union structures, forerunners of modern unions, such as the Knights of Labor, development of the current unions and the potential for union survival in the post-industrial era.

ECON 487H Human Resource Economics
An analysis of the factors determining the productivity of human resources: education, nutrition, job training and work environment. An analysis of work patterns, wage patterns and the impact of automation. Prerequisite: ECON 302 Semester Offered: Fall, every other year.

ECON 499WI Capstone Colloquim
This course provides a common intellectual experience for all economics majors while recognizing the diversity of experiences students bring with them to their final semester before graduation. A series of lectures, reading assignments, and writing assignments help students to synthesize their knowledge of the broad areas of study within (and outside) the field of economics. Guest lecturers provide a critical summary of and synthesis of major areas of study. Each student will also assess their own development by critically examining their individual portfolio of work (containing papers, essay exams, and term papers written during their undergraduate career), and of the department's program. Prerequisite: Successful completion of WEPT. Offered: Winter
**ECON 499WI** Capstone Colloquium
This course provides a common intellectual experience for all economics majors while recognizing the diversity of experiences students bring with them to their final semester before graduation. A series of lectures, reading assignments, and writing assignments help students to synthesize their knowledge of the broad areas of study within (and outside) the field of economics. Guest lecturers provide a critical summary of and synthesis of major areas of study. Each student will also assess their own development by critically examining their individual portfolio of work (containing papers, essay exams, and term papers written during their undergraduate career), and of the department's program. Prerequisite: Successful completion of WEPT. Offered: Winter

**ECON 855** Socialist Economic Systems

**ECON 964** The Economics Of Health And Medicine
An economic analysis of the development of the medical market; organized medicine and the structure of existing health delivery systems. The problems of the medical market will be analyzed; the role of insurance will be investigated and alternative public policies will be studied. Prerequisite: Advanced standing or consent of the instructor. On request.

**English (ENGLISH)**

**ENGLISH 100** Introduction to Reading and Writing
The study and practice of rhetorical principles and strategies of academic reading and writing. Frequent reading and writing exercises develop critical engagement with texts, with an emphasis on thesis, organization and grammar. This optional course prepares students to take English 110.

**ENGLISH 100B** Basic Speaking and Listening For Non-Native Speakers
The study and practice of speaking and listening for survival-level social functions in English. Frequent exercises focus on the production of isolated words and phrases in areas of need, and on the development of survival level oral/aural skills for beginning ESL students. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer.

**ENGLISH 100C** Basic Reading for Non-Native Speakers
The study and practice of survival-level reading English vocabulary in context. Frequent exercises focus on basic reading comprehension related to familiar topics and situations, and the introduction of dictionary skills. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer.

**ENGLISH 100D** Basic Writing For Non-Native Speakers
The study and practice of survival level writing skills including spelling, capitalization and some punctuation. Introduction of basic sentence structures and completion of simple standard forms of written English. Frequent exercises focus on survival level writing such as words and basic phrases in the present tense. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer.
questions, directions, and descriptions in the present tense that relate to students' immediate surroundings and some life skills areas. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisite: Applied Language Institute approval. Offered: Fall/Winter/Summer

ENGLISH 100G Basic Grammar For Non-Native Speakers
The study and practice of survival level sentence structures and words. Frequent exercises focus on basic level sentences, questions, directions, and descriptions in the present tense that relate to students' immediate surroundings and some life skills areas. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisite: Applied Language Institute approval. Offered: Fall/Winter/Summer

ENGLISH 100S Special Topics In English As A Second Language
A course designed to address the specific needs of an individual student or group of students studying English as a Second Language. In addition to targeting English skills, the course may address topics or skills which are not covered in the standard Academic English curriculum of the Applied Language Institute. This course will accommodate individual students or groups of students studying at the Institute for periods of time other than the standard semester length. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisite: ALI Approval Offered: Fall/Winter/Summer

ENGLISH 100T TOEFL Preparation
This course will prepare students to take the TOEFL (Test of English as a Foreign Language), in either the Paper(PBT) or Computer-based (CBT) form, and/or to improve their scores from previous attempts. Exercises focus on developing the skills and strategies necessary for navigating TOEFL questions while continuing to develop the general English language skills that support success on the TOEFL. The course will provide students with a personal awareness of strengths and weaknesses so they may focus their test preparation work in and outside of class. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisite: Applied Language Institute approval Offered: Every semester

ENGLISH 101B Academic Speaking & Listening For Non-Native Speakers I
The study and practice of speaking and listening for basic social functions in English. Exercises include the practice of basic descriptions and the development of oral/aural skills for beginning ESL students. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 101B Academic Speaking & Listening For Non-Native Speakers II
The study and practice of speaking and listening for basic social functions in English. Exercises include the practice of basic descriptions and the development of oral/aural skills for beginning ESL students. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 101C Academic Reading & Vocabulary For Non-Native Speakers I
The study and practice of reading with basic English vocabulary in context. Exercises focus on reading comprehension, identifying the topics of short readings, and the introduction of basic dictionary skills. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 101C Academic Reading & Vocabulary For Non-Native Speakers II
The study and practice of reading with basic English vocabulary in context. Exercises focus on reading comprehension, identifying the topics of short readings, and the introduction of basic dictionary skills. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 101D Academic Writing For Non-Native Speakers I
The study and practice of basic writing skills including handwriting, spelling, capitalization and punctuation. Frequent short exercises emphasize basic sentence structure, biographical description, and completion of standard forms. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval Offered:
ENGLISH 101D Academic Writing For Non-Native Speakers I
The study and practice of basic writing skills including handwriting, spelling, capitalization and punctuation. Frequent short exercises emphasize basic sentence structure, biographical description, and completion of standard forms. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 101G Academic Grammar For Non-Native Speakers I
The study and practical application of basic sentence structure and word parts. Frequent exercises emphasize use and understanding of simple sentences, questions, directions, and descriptions in the present and past tenses. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute Approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 101G Academic Grammar For Non-Native Speakers I
The study and practical application of basic sentence structure and word parts. Frequent exercises emphasize use and understanding of simple sentences, questions, directions, and descriptions in the present and past tenses. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute Approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 102B Academic Speaking & Listening For Non-Native Speakers II
The study and practice of speech in environments such as the classroom, work, and simple social occasions. Exercises focus on student's ability to distinguish sounds and to produce them correctly in the context of a sentence and to listen for specific information. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 102B Academic Speaking & Listening For Non-Native Speakers II
The study and practice of speech in environments such as the classroom, work, and simple social occasions. Exercises focus on student's ability to distinguish sounds and to produce them correctly in the context of a sentence and to listen for specific information. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 102C Academic Reading & Vocabulary For Non-Native Speakers II
The study and practice of reading narrative and expository texts and standard forms. Exercises focus on the development of vocabulary and introduction of reading techniques such as identification of topics and main ideas, skimming, scanning, prediction, and inference. This course carries no credit toward graduation in the College of Arts and Science. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 102C Academic Reading & Vocabulary For Non-Native Speakers II
The study and practice of reading narrative and expository texts and standard forms. Exercises focus on the development of vocabulary and introduction of reading techniques such as identification of topics and main ideas, skimming, scanning, prediction, and inference. This course carries no credit toward graduation in the College of Arts and Science. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 102D Academic Writing For Non-Native Speakers II
The study and practice of techniques for writing short paragraphs in English. Frequent exercises emphasize various forms of paragraph organization and the improvement of punctuation and mechanical skills in writing. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 102D Academic Writing For Non-Native Speakers II
The study and practice of techniques for writing short paragraphs in English. Frequent exercises emphasize various forms of paragraph organization and the improvement of punctuation and mechanical skills in writing. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 102G Academic Grammar For Non-Native Speakers II
The study and practical application of basic sentence structures, including future and irregular past tense constructions. Frequent exercises emphasize use and understanding of comparatives, questions, and compound nouns and verbs. This course carried no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer
ENGLISH 102G Academic Grammar For Non-Native Speakers II
The study and practical application of basic sentence structures, including future and irregular past tense constructions. Frequent exercises emphasize use and understanding of comparatives, questions, and compound nouns and verbs. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer

ENGLISH 103B Academic Speaking & Listening For Non-Native Speakers III
The study and practice of listening for and producing speech in the past, present and future tenses. Exercises introduce note-taking techniques and focus on the ability to hear and express abstract ideas. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 103B Academic Speaking & Listening For Non-Native Speakers III
The study and practice of listening for and producing speech in the past, present and future tenses. Exercises introduce note-taking techniques and focus on the ability to hear and express abstract ideas. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 103C Academic Reading & Vocabulary For Non-Native Speakers III
The study and practice of longer reading passages of various rhetorical styles. Exercises focus on improvement of reading speed and the development of vocabulary and comprehension through complex inferences. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 103C Academic Reading & Vocabulary For Non-Native Speakers III
The study and practice of longer reading passages of various rhetorical styles. Exercises focus on improvement of reading speed and the development of vocabulary and comprehension through complex inferences. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 103D Academic Writing For Non-Native Speakers III
The study and practice of writing multi-paragraph academic essays. Frequent exercises emphasize point-of-view, process writing, and a variety of rhetorical styles. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 103D Academic Writing For Non-Native Speakers III
The study and practice of writing multi-paragraph academic essays. Frequent exercises emphasize point-of-view, process writing, and a variety of rhetorical styles. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 103G Academic Grammar For Non-Native Speakers III
The study and practical application of complex sentence structures, including perfect and perfect progressive tenses. Frequent exercises emphasize use and understanding of passive voice, gerunds and infinitives, articles, conditionals, and modals. The course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 103G Academic Grammar For Non-Native Speakers III
The study and practical application of complex sentence structures, including perfect and perfect progressive tenses. Frequent exercises emphasize use and understanding of passive voice, gerunds and infinitives, articles, conditionals, and modals. The course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 104B Academic Speaking & Listening For Non-Native Speakers IV
The study and practice of standard English, particularly in the college classroom. Exercises include training in academic lecture comprehension and note-taking as well as formal (classroom presentation) and informal (conversation) English speaking. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Lang. Inst. approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 104B Academic Speaking & Listening For Non-Native Speakers IV
The study and practice of standard English, particularly in the college classroom. Exercises include training in academic lecture comprehension and note-taking as well as formal (classroom presentation) and informal (conversation) English speaking. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Lang. Inst. approval.
ENGLISH 104C Advanced Academic English Reading For Non-Native Speakers IV
This course focuses on preparing students to deal effectively with sophisticated academic reading materials by guiding them in the development of a conscious and reflective approach toward reading. It emphasizes advanced reading skills of interpretation, inference, critical analysis, evaluation and application. There will be frequent exercises addressing the acquisition and practice of study skills and collaborative academic work. Prerequisites: Completion of ENGLISH 103C with a grade of B or better or Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 104C Advanced Academic English Reading For Non-Native Speakers IV
This course focuses on preparing students to deal effectively with sophisticated academic reading materials by guiding them in the development of a conscious and reflective approach toward reading. It emphasizes advanced reading skills of interpretation, inference, critical analysis, evaluation and application. There will be frequent exercises addressing the acquisition and practice of study skills and collaborative academic work. Prerequisites: Completion of ENGLISH 103C with a grade of B or better or Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 104D Academic Writing For Non-Native Speakers IV
The study and practice of rhetorical principles in standard English prose. Frequent writing exercises emphasize critical thinking and research skills as well as fluency and accuracy in academic writing. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Lang. Inst. approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 104D Academic Writing For Non-Native Speakers IV
The study and practice of rhetorical principles in standard English prose. Frequent writing exercises emphasize critical thinking and research skills as well as fluency and accuracy in academic writing. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Lang. Inst. approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 104G Advanced Academic English Grammar For Non-Native Speakers IV
This course focuses on the analytical understanding and application of English grammar. Students will be expected to observe usage patterns of the English language in a combination of both normative and prescriptive grammars appropriate for academic English application. There will be frequent exercises emphasizing mastery of complex grammar structures including all verb tenses, dependent clauses, modals, and unreal conditionals, and of the relationship between ideas and the construction of sentences in academic discourse. Prerequisites: Completion of ENGLISH 103G with a grade of B or better or Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 104G Advanced Academic English Grammar For Non-Native Speakers IV
This course focuses on the analytical understanding and application of English grammar. Students will be expected to observe usage patterns of the English language in a combination of both normative and prescriptive grammars appropriate for academic English application. There will be frequent exercises emphasizing mastery of complex grammar structures including all verb tenses, dependent clauses, modals, and unreal conditionals, and of the relationship between ideas and the construction of sentences in academic discourse. Prerequisites: Completion of ENGLISH 103G with a grade of B or better or Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 105A Advanced Academic English (Multiskills) For Non-Native Speakers V
The comprehensive study and practice of standard English skills for advanced students of English as a second language. level readings focusing on current issues serve as the basis for frequent writing exercises and for classroom discussions and presentations. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Inst. approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 105A Advanced Academic English (Multiskills) For Non-Native Speakers V
The comprehensive study and practice of standard English skills for advanced students of English as a second language. level readings focusing on current issues serve as the basis for frequent writing exercises and for classroom discussions and presentations. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Inst. approval. Offered: Fall/Winter/Summer Letter grade assigned.

ENGLISH 105B Advance Speaking and Listening Topics for Non-Native Speakers
This course focuses on developing high-level fluency in English listening and speaking through critical awareness of social language use. Students will work toward greater speaking and listening fluency and adaptability through the practice of skills involving purpose, audience, speech norms and context. Prerequisite: Applied Language Institute approval. Offered: Fall/Winter/Summer

ENGLISH 105C Advanced Reading Topics for Non-Native Speakers
In this course, advanced ESL readers will develop the core critical reading skills required for success in academics by examining
and applying those skills in the context of authentic college-level readings representing a wide variety of genres and modes. Readings will include extensive college textbook passages, newspaper articles, opinion sections, academic essays and interpretive reading of literature. Prerequisite: Applied Language Institute Approval. Offered: Fall/Winter/Summer.

ENGLISH 105D Advanced Writing Topics for Non-Native Speakers
This course engages advanced ESL and EFL writers to develop greater dexterity of expression in composition. In addition to reinforcing core rhetorical skills, grammar and writing mechanics, students will explore new rhetorical styles such as personal responses, autobiographical essays, and writing about literature. Extensive reading complements the writing discussion and practice with pieces including personal and academic essays, narrative, magazine journalism and fiction. Prerequisite: Applied Language Institute approval. Offered: Fall/Winter/Summer.

ENGLISH 105G Advanced Grammar Topics for Non-Native Speakers
In this course, students will pursue an in-depth comprehension of English grammar, with a strong focus on increasing fluency in the English language through a critical analysis of connotation and pragmatics and their role in language fluency. Contextual readings, film and native conversation passages will complement the grammar discussions and practice, engaging students to move beyond a literal understanding based on syntax and semantics to a more contextual awareness of English form and function. Prerequisite: Applied Language Institute approval. Offered: Fall/Winter/Summer.

ENGLISH 110 English I: Introduction To Academic Prose
This course introduces students to college-level reading, writing, and discourse analysis: it engages students in the analysis and creation of texts that reveal multiple perspectives about specific rhetorical situations and cultural issues. In addition to learning how to revise by analyzing their own writing, students will learn to edit their own work and use proper academic documentation. Offered: Every Semester

ENGLISH 110A Freshman English I For Non-Native Speakers
The study and practice of analytical and critical reading. The study of basic rhetorical principles and the practice of those principles in frequent short papers; close reading of prose. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer.

ENGLISH 200 Introduction To Undergraduate Study In English
An investigation of reading, writing, and research practices associated with studies in English. Students will learn about multiple forms, genres, and critical approaches, as well as encounter texts from various historical periods and places. Required of all English majors before enrolling in 400-level English courses.

ENGLISH 204 Writing About Literature
This course is designed to be taken either prior to or concurrent with a student's first literature course. It introduces students to literary criticism in its broadest, most generic sense, as a stylized response to reading. Students in the course will be introduced to different approaches to writing about literature, to methods of generating ideas, and focusing and developing a topic. Prerequisite: ENGLISH 110 or its equivalent.

ENGLISH 205 Popular Literature
The course focuses on writing in English by a range of popular authors from a variety of periods and places, historic and contemporary. The course may include popular stories, songs and ballads, the scripts of blockbuster plays and films, best-selling novels, and widely distributed nonfictional prose.

ENGLISH 207 World Literature in English
This course introduces students to World Literature using texts originally written in English and translated into English from other languages. Course texts include a variety of genres and engage students with a wide range of global experiences and cultures outside the Western tradition.

ENGLISH 213 Introduction To Drama
Beginning with an intensive study of a few plays analyzed to elicit general principles, the course moves on to consider several representative examples of each of the major periods and types of Western drama, from the Greeks to the present. The two-hour version of this course will be offered only off-campus.
ENGLISH 214 Introduction To Fiction
Emphasis in this course is on critical reading of short stories and the novel selected from all periods of English, American, and European literatures. The course will introduce the systematic study of fiction as a literary genre and will equip students for more advanced work in literature or creative writing. Writing assignments are designed to aid in the understanding of the structure and content of the material covered. Every semester

ENGLISH 215 Introduction To Poetry
An introduction to the study of poetry for students desiring a basic course either to develop a greater appreciation of poetry or to prepare for more advanced courses in literature or creative writing. Class discussions will focus on close readings of poems and analysis of poetic techniques. Writing assignments will complement reading and class discussion and will enable students to develop their own critical and creative skills.

ENGLISH 215 Introduction To Poetry
An introduction to the study of poetry for students desiring a basic course either to develop a greater appreciation of poetry or to prepare for more advanced courses in literature or creative writing. Class discussions will focus on close readings of poems and analysis of poetic techniques. Writing assignments will complement reading and class discussion and will enable students to develop their own critical and creative skills.

ENGLISH 225 English II: Intermediate Academic Prose
This course extends the work of English 110 with an additional emphasis on research. Each section of ENGLISH 225 uses a combination of book-length and shorter texts on focus on specific historical and/or cultural issues. As they learn to participate in scholarly conversations, students will find and evaluate library and internet sources. As with English 110, this course emphasizes revision, editing, and proper academic documentation. Satisfactory completion of ENGLISH 110 and sophomore standing are prerequisites for ENGLISH 225. Every semester. Note: ENGLISH 225 or its equivalent is a prerequisite for all 300- and 400-level English courses.

ENGLISH 225 English II: Intermediate Academic Prose
This course extends the work of English 110 with an additional emphasis on research. Each section of ENGLISH 225 uses a combination of book-length and shorter texts on focus on specific historical and/or cultural issues. As they learn to participate in scholarly conversations, students will find and evaluate library and internet sources. As with English 110, this course emphasizes revision, editing, and proper academic documentation. Satisfactory completion of ENGLISH 110 and sophomore standing are prerequisites for ENGLISH 225. Every semester. Note: ENGLISH 225 or its equivalent is a prerequisite for all 300- and 400-level English courses.

ENGLISH 225A English II For Non-Native Speakers
The study and practice of expository writing and analytical and critical reading geared to the needs of students for whom English is not the first language. The course emphasizes the development and integration of all areas of language comprehension and production. The writing focus is on kinds of organization, diction, style, etc. used in academic writing in the United States. Frequent research papers. Prerequisite: Satisfactory completion of ENGLISH 110 or ENGLISH 110A and sophomore standing. Applied Language Institute approval. Offered: Fall/Winter/Summer.

ENGLISH 241 Women And Literary Culture: Introduction
The course offers an introduction to women as producers and consumers of literature. Students will become acquainted with women writers, explore women's reading practices, and interrogate the issues that have surrounded women's participation in cultural arenas.

ENGLISH 245 Advanced English Pronunciation for Non-Native Speakers
This course will help students recognize, understand, and produce features of the American English sound system that result in comprehensible and meaningful communication. Course attendees will reconsider what they understand about the language, expand their awareness of what they hear and what they say, and explore how certain sounds in certain environments appear, disappear, combine, or modify to create predictable patterns in American English. Prerequisite: Applied Language Institute Approval. Offered: All Semesters.

ENGLISH 250 Introduction To Language Acquisition And Diversity
Investigation of the basic principles of first and second language acquisition. Topics addressed include language competency, socio-cultural factors in language, dialects, acquisitional principles, and language diversity. Students will take part in monitored classroom observations in public schools, and will critically analyze how the topics addressed in class apply to real life and to teaching situations. A service learning component is included.

ENGLISH 270 Writing Tutor Training Seminar
This course covers the basics of serving as a tutor for writers. Students acquire hands-on experience in consulting with writers at all stages of the writing process, including invention work, drafting, revising, documenting, and editing. Students will also
This course examines representations of race and ethnicity in American film from the silent era onward in mainstream and countercultural traditions. It explores how social, political, and economic conditions contribute to constructions of race and ethnicity. This course is offered as a cluster with Comm-ST 405CD and History 300CF.

ENGLISH 300CR CC: Roman Revolution: History & Culture From The Gracchi To Augustus
The period of Roman history from the revolution initiated by the Gracchi to the demise of the Republic & the establishment of the Principate under Augustus will be studied. The course begins with the Scipionic Circle under whose leadership foreign imperialism, domestic factionalism, and the influx of Greek culture increased. Political, social and cultural developments which culminated in the violent death of the old system will be traced. We will also show how Augustus kept the past alive and make his new government acceptable to the tradition-loving Romans. Students will read the words of such writers as Terence, Cato, Polybius, Cicero, Caesar, Sullust, Catullus, Horace, Virgil, and Ovid, whose works cover the important genres of Roman literature—new comedy, rhetoric, satire, history, epic, pastoral, and lyric poetry.

ENGLISH 300CS Cluster Course: Clio And The Other Muses
This course focuses on the history, art, architecture, literature, and culture of Athens in the 5th Century BCE. Course readings will include primary literary and historical sources such as lyric poetry, comedy and tragedy, philosophy, and historical writings. Cross-listed with Classics 300CS.

ENGLISH 300CW Critical Issues in Women's & Gender Studies
This class is an interdisciplinary upper-level course that will examine critical issues in women's and gender studies by focusing on the intersections of gender, race, class, sexuality, and social context. Through their study of these intersections, students will be more sensitive to the impact of social structures on gender and the experiences of women and men. This course may be cross-listed with Classics 300CB.

ENGLISH 299 Form And Structure Of Writing
This course is required for students who have twice failed the Written English Proficiency Test (WEPT) and is open only to students who have failed the test at least once. The class will cover the basic conventions of successful expository and academic writing. Emphasis will be placed on methods of development and on strategies for organization. This course satisfies neither the college humanities requirement nor the junior-level writing requirement. Completion of the course with a grade of C or better does fulfill the WEPT requirement for graduation, however, and renders students eligible to enroll in courses designated Writing Intensive (WI). Does not count toward graduation.

ENGLISH 300 Interdisciplinary Studies: Cluster Course Offerings

ENGLISH 300CB Cluster Course: Women In The Ancient World
This course focuses on the history, representation, literature, social lives, and political roles of women in ancient civilization including Egypt, Mesopotamia, the Biblical World, Greece, and Rome. It integrates methodologies from history, art history and archaeology, literary studies, and women's studies. Cross-listed with Classics 300CB.

ENGLISH 300CD Cluster Course: American Social Film: Silver Screen & American Dream
This course will combine American social history and film history in the sound era. Using Hollywood entertainment films, the course will look at Hollywood as an indicator of social, political and economic conditions in the United States since the 1930s. The main topics are representations of the American dream and nightmare, poverty and affluence, success and failure. This course is offered as a cluster with COMM-ST 402CD, HISTORY 400CP, and AMER- ST 300CD.

ENGLISH 300CE Cluster Course: Radical Changes Since 1945
This cluster will focus on modernism, post-modernism and expressionism in the visual arts and literature since World War II. Common lectures will address intellectual movements such as existentialism and formalism—and cultural development—such as the increased impact of technology and mass media—in contemporary society. By focusing on these movements, the cluster course hopes to provide an integrated view of the literature and visual arts of the period and to draw upon analogous developments in contemporary architecture, music, philosophy and film.

ENGLISH 300CN Cluster Course: Terrorism, Civil War And Trauma
This interdisciplinary course examines the modern experience of terrorism and civil war in the light of art, film, history, literature, and philosophy. It explores a number of traumatic events, historic and contemporary, challenging us to think about such contemporary issues as violence and identity formation, civil rights and state-sponsored terrorism, pacifism and patriotism, resistance and collaboration, fundamentalism and fascism, neo-colonialism and anti-imperialism.

ENGLISH 300CQ Cluster Course: Race in American Film
This course examines representations of race and ethnicity in American film from the silent era onward in mainstream and countercultural traditions. It explores how social, political, and economic conditions contribute to constructions of race and ethnicity. This course is offered as a cluster course with Comm-ST 405CD and History 300CF.
ENGLISH 300CW Critical Issues in Women's & Gender Studies
This class is an interdisciplinary upper-level course that will examine critical issues in women's and gender studies by focusing on the intersections of gender, race, class, sexuality, and social context. Through their study of these intersections, students will be more sensitive to the impact of social structures on gender and the experiences of women and men. This course may be cross-listed with CC SOC 300CW.

ENGLISH 300CY Cluster Course: Ancient World/Cinema
This course will explore the tradition of depicting the ancient mediterranean world film from the early silent era to the present. Topics to be covered include the ways that filmmakers respond to literary and historical sources from the ancient world, interact with the artistic tradition of films about the ancient world, the relation of these films to other works by the same creative personnel (directors, actors, writers, producers, etc.), and the political and cultural contexts in which the films were released. This course is cross-listed with HISTORY 400CY.

ENGLISH 300F SS:Academic English/International Grad Teaching Assistants
The study and practice of standard spoken English combined with the study and practice of classroom teaching techniques. Exercises focusing on improvement of pronunciation, and formal (classroom presentation) and informal (conversation) English speaking are combined with techniques for lecture organization, strategies for clear content presentation, and with analysis of the American post-secondary educational culture. This course is designed for prospective International Graduate Teaching Assistants who need to improve their English communication skills and obtain an understanding of American educational culture. Prerequisite: ALI approval

ENGLISH 301WI Writing And The Academy
This course examines social and ethical issues raised by academic reading and writing. While some attention is paid to the formal aspects of academic prose within specific disciplines, the main emphasis of the course is on the cultural consequences of the different ways that academic knowledge is created and taught. In addition to studying the language and structure of academic reading and writing, the course explores the various rhetorics of the academy in terms of a broad range of subjects including economics, gender, education, history, and myth. This course satisfies the junior-level writing requirement and counts towards the writing minor. Prerequisites: ENGLISH 110, ENGLISH 225 and successful completion of the WEPT. Offered every semester.

ENGLISH 301W1 Writing And The Academy
This course examines social and ethical issues raised by academic reading and writing. While some attention is paid to the formal aspects of academic prose within specific disciplines, the main emphasis of the course is on the cultural consequences of the different ways that academic knowledge is created and taught. In addition to studying the language and structure of academic reading and writing, the course explores the various rhetorics of the academy in terms of a broad range of subjects including economics, gender, education, history, and myth. This course satisfies the junior-level writing requirement and counts towards the writing minor. Prerequisites: ENGLISH 110, ENGLISH 225 and successful completion of the WEPT. Offered every semester.

ENGLISH 303WI Introduction To Journalism
Introduction to the styles and techniques of reporting and writing basic news through assignments in straight news, features and in-depth stories. Exposure to the history and principles of American journalism. Practical application in writing news and news feature articles. Also offered as COMM-ST 303WI.

ENGLISH 304W1 Writing And Technology
This course takes a student-centered approach to writing about and with technology. The course examines the reciprocity of culture and technology in intersecting local and global contexts. Course materials will vary depending on the instructor, but all sections will use genres of technical writing to explore the relationships between specific institutional and professional environments and such broader issues as economics, gender, history, myth, and nature. Prerequisites: ENGLISH 110, ENGLISH 225 and pass on WEPT. Offered: Every semester.

ENGLISH 304W1 Writing And Technology
This course takes a student-centered approach to writing about and with technology. The course examines the reciprocity of culture and technology in intersecting local and global contexts. Course materials will vary depending on the instructor, but all sections will use genres of technical writing to explore the relationships between specific institutional and professional environments and such broader issues as economics, gender, history, myth, and nature. Prerequisites: ENGLISH 110, ENGLISH 225 and pass on WEPT. Offered: Every semester.

ENGLISH 305W1 Theory And Practice Of Composition
A course in expository writing that will include reading on composition theory and the nature of literacy. Frequent short essays
and a long paper. Prerequisites: ENGLISH 110, ENGLISH 225, and successful completion of the WEPT.

**ENGLISH 306WI** Advanced Composition  
(Formerly English 202). Further study of writing for those who wish to continue the study beyond the two semesters of composition. Emphasis will be placed on translating critical thinking into effective writing. (NOTE: Students may not receive credit for more than one of the following: 305, 306, 403). Required of business and public administration majors. Prerequisites: English 110, 225, and successful completion of the WEPT. Offered: Every semester.

**ENGLISH 307WI** Language, Literacy, Power  
This course uses discourse analysis to investigate language and literacy. Students will explore how the discourses of institutional and cultural identities act as instruments of power and legitimacy. Prerequisites: English 110 and English 225 or equivalent and successful completion of the WEPT.

**ENGLISH 308** Rhetorics of New Media  
This course will focus on the rhetorical study of new media texts (such as hypertext, networked multimedia, multimedia art and performance, virtual spaces, and so on) and theories of new media. The course will consider the rhetorical possibilities and constraints of new media and critically examine their impact on democratic discourse and literacy in the public sphere. Specialized knowledge of multimedia equipment and software is neither expected nor required. Prerequisites Eng. 110 & 225, or equivalent.

**ENGLISH 309WI** Rhetorics of Public Memory  
This course explores how museums and other cultural institutions function as rhetorical agents in creating and preserving public memory. Students will explore how processes of collection, arrangement, and visual display operate as modes of persuasion and make arguments about civic identities and community values. Prerequisites: Completion of the WEPT exam.

**ENGLISH 310** Introduction To Linguistics/Language Science  
This course is a comprehensive introduction to the theory, methodology, and applications of the science of language. It examines properties of human language, covers all branches of language science, and provides a foundation for a critical understanding of language issues. Required for ENGLISH 470; recommended for ENGLISH 320 and ENGLISH 330.

**ENGLISH 311** American Literature I  
A survey of American literature and culture from its beginnings to 1865. This course will cover a range of authors, several genres, and culture forms, which may include fiction, poetry, drama, autobiography, oral, contact and/or slave narratives, folklore, and songs.

**ENGLISH 312** Creative Writing I Fiction  
A course centered on the short story. Emphasis is placed on three areas: general principles governing the writing of fiction; practice in short fiction (primarily the short story, but including the novella); criticism; and technical skills (including editing and rewriting). Prerequisite: Concurrent enrollment in or completion of ENGLISH 213 or ENGLISH 214 or instructor's permission.

**ENGLISH 313WI** Reporting  
A seminar of practical application in advanced reporting. Assignments to cover news events and to pursue in-depth news reports on the campus and off. Work is turned in on deadline and critiqued by the instructor. Prerequisites: ENGLISH 110, ENGLISH 225, and successful completion of the WEPT.

**ENGLISH 315** Creative Writing Poetry  
Writing and rewriting poems, with discussion of techniques needed to produce desired effects. Analysis and evaluation of student work. Examination of technical means utilized in selected poems by accomplished poets. Offered: Winter. Prerequisites: Concurrent enrollment in or completion of ENGLISH 215 or instructor's permission.

**ENGLISH 316WI** Literary Nonfiction  
Literary Nonfiction is a writing intensive course in the reading and writing of nonfiction prose as a literary art. We'll survey the historical development of literary nonfiction (especially the essay), sample contemporary authors of the genre, write critical commentary on works we read, and compose personal essays of our own. The course is not exclusively a literary seminar nor a creative writing workshop, but seeks to mix and make connections between these modes, in the tradition of the essay itself. Prerequisites are ENGLISH 110, ENGLISH 225, and completion of the WEPT.
ENGLISH 317 British Literature I
A survey of British Literature and culture from its beginnings to the 18th century, including works by Chaucer and Milton.

ENGLISH 318 Bible As Literature
A critical study of the major portions of the Old and New Testaments and the Apocrypha, with special attention to the development of literature from oral tradition, the literary genres, themes and archetypes represented in the collection, and the diction and style which have influenced later literature. Consideration also of the relation of Biblical literature to the historical, religious, and cultural milieu of the ancient Near East.

ENGLISH 319 Myth And Literature
A study of classical myth including readings from Homer to Ovid, analysis of selected myths in later literature, art and music, and a study of contemporary definitions and approaches to myth.

ENGLISH 320 Structure Of English
Not a remedial grammar course. Methods of linguistic inquiry and grammatical description. Study of traditional and modern schools of syntax, especially transformational grammar. Practice describing the structure of sentences. Application to the teaching of grammar in high schools.

ENGLISH 321 American Literature II
A survey of American literature and culture from 1865 to the present. This course will cover a range of authors, several genres, and culture forms, which may include fiction, poetry, drama, autobiography, essay, lyrics, and film.

ENGLISH 322 Shakespeare
An intensive critical study of William Shakespeare's writings in various contexts (historical, social, political, literary, contemporary, for example). Readings will encompass at least eight plays and will include at least one comedy, history, tragedy, and romance. Required of all English majors.

ENGLISH 323 Introduction To British Literature II
A survey of British literature and culture of the Romantic, Victorian, and Modernist periods, this course will cover several genres including at least one novel from each period. Required of all English majors. Offered every semester.

ENGLISH 324 Arthurian Legends
Focusing on writers such as Marie de France, Chretien de Troyes, Sir Thomas Malory, Alfred, Lord Tennyson, Sara Teasdale, Bernard Malamud, and Marion Zimmer Bradley, this course examines the legend of King Arthur and his Round Table as a recurring myth, repeatedly manifested in time through literature, art, history, music, and film. Prerequisite: None

ENGLISH 326 Modern And Contemporary Irish Literature
This course examines a range of texts written by Irish-born writers from the end of the nineteenth century on. While it is likely the course will include texts by the most famous Irish writers, such as Yeats, Joyce, Beckett, O’Brien, Heaney, and Friel, course materials will vary from semester to semester and may focus on a specific genre, historical period, or area of interest. Offered: On Demand

ENGLISH 327 British Literature II
A survey of British Literature and culture from the late 18th century to the present. This course will cover a range of authors and genres, including at least one novel.

ENGLISH 329 Film As Art
An application and formulation of critical approaches to the major artistic achievements of the important creators of this modern aesthetic form -- D.W. Griffith, Chaplin, Hitchcock, Bergman, Einstein, Kubrick.

ENGLISH 330 History Of The English Language
The study of English beginning with the Indo-European language family up to and including varieties of English spoken around the world today. Both outer history and the inner history of phonology, morphology, syntax, and lexicon will be addressed.

ENGLISH 331 African American Literature I
This course provides a survey of African American literature from its beginnings to the Harlem Renaissance of the 1920s and 1930s. Areas of interest will include abolitionist literature (especially Slave Narratives), turn-of-the-century literature and the Harlem Renaissance. This course will examine any or all of the following literary forms: fiction, poetry, drama, autobiography and essay. It will view African American literature in its historical and cultural contexts. Cross-listed with Black Studies 331. 

ENGLISH 332 African American Novel
This course will examine the African American Novel in the 19th and 20th centuries; the emphasis will be on the period from...
the 1920s to the present. The novels will be examined in their historical and cultural contexts. Cross-Listed with Black Studies 332WI.

ENGLISH 333 African American Literature II
A survey of African American literature from the end of the Harlem Renaissance to the present, covering a range of authors, texts, and contexts. Cross-listed with Black Studies 333.

ENGLISH 336 Contemporary American Literature
An intensive study of American literature since World War II, concentrating on the profound literary changes following that war, as a new kind of poetry, fiction and drama emerges which chronicles the simultaneous dissolution of old values and the efforts to establish new ones. Writers such as Lowell, Roethke, Ginsberg, Ellison, Salinger, Bellow, Mailer, Baldwin, Flannery O’Connor, Pynchon, Katherine Anne Porter, Heller, Richard Wright, Tennessee Williams, Arthur Miller, and Edward Albee will be considered along with others, as American writing develops in our time.

ENGLISH 339 Introduction to Screenwriting
An introduction to the form and language of the motion picture screenplays. Students create a blueprint for a movie and examine visual storytelling in-depth, including basic dramatic structure, scene and sequence construction and dialogue. Students will master the industry screenplay format, adapt a short story for the screen, and learn to receive feedback in small groups. Prerequisites: Comm Studies 230 or 250, or permission of instructor. Crosslisted with COMM-ST 354: Intro to Screenwriting.

ENGLISH 340A Classical Literature In Translation
This course will focus on representative authors and works from the Greek and Roman Classical periods, such as Homer, Sophocles, Euripides, Aeschylus, Aristophanes, Plato, the Greek Lyrics, Virgil, Horace, Juvenal, Ovid and Plautus.

ENGLISH 342WI Women And Rhetoric
A study of the position of women within the traditions of western rhetoric. Students will examine the rhetorical practices of women as they pursue both public and private goals. Christine de Pizan, Sor Juana Ines de la Cruz, Hannah More, Maria Stewart, Frances Willard, Ida Wells-Barnett, Meridel Le Sueur, and Gloria Anzaldua are among the female rhetorians who may be studied in this course. Prerequisite: Successful completion of the WEPT. Offered: On Demand

ENGLISH 344WI Women & Literary Culture: Genre Focus
A study of women writers that focuses on genre, i.e., texts that share a common set of conventions. The course will explore the conventions associated with a particular genre in various historical periods and consider the ways in which gender and genre intersect in shaping texts and their interpretation. Prerequisite: Successful completion of the WEPT Offered: On Demand
Restrictions: None

ENGLISH 345WI Women And Literary Culture: Historical Focus
A study of women's literary culture in a specific historical period either as broadly defined as Medieval or Renaissance or as narrowly defined as a decade or movement (e.g., 1960s, abolitionist movement). This course includes women writers across multiple boundaries (e.g., national, generic, racial, sexual, socio-economic). Content will change depending on the instructor. Prerequisite: Successful completion of the WEPT.

ENGLISH 350 The 18th Century Novel
A detailed examination of the development of the novel in the 18th century. The course emphasizes the evolution of the novel from such predecessors as rogue literature, the picaresque story and the romance, due to changing social realities. The novelists studied may include Austen, Behn, Fielding, Godwin, Haywood, Richardson, Smollett, and Sterne. Prerequisite: None
Restrictions: None.

ENGLISH 351 Special Readings
Readings in a period, genre or theme to be selected by the instructor with attention to the needs of students who are interested in literary topics not covered in regular offerings. Proposals for a course in such readings require the approval of the department.

ENGLISH 351A Special Readings: Detective Fiction

ENGLISH 352P Critical Approaches To The Short Story
In this course the student will explore the short story as a literary genre. Stories will range from the early masters such as Chekov, Kafka, and Hawthorne through contemporary offerings from Lessing, Mishima, and Achebe. Several critical approaches will be presented including formalism, New Historicism, and race/class/gender criticism. Students will keep a reading journal covering all material read for the course, and will be assessed on the basis of this journal, a mid-term and a final examination. Prerequisites: None.
ENGLISH 354P Masterpieces Of Fiction
The goal of this independent study is to provide the student with time and space to read and respond to 7-9 critically acclaimed and classic novels. Students will be allowed to choose the novels they wish to read from a list of 50 that will be provided by the instructors. This course must be taken in conjunction with at least one of the other two courses in this block in order to ensure that the student has exposure to literary theory. Students will be assessed on the basis of their response journal, casual oral examination, and a critical essay. Prerequisites: None.

ENGLISH 355 The Novel Before 1900
Intensive attention to novels in English written before 1900, which may include comparative or analytical studies of genre; critical reception of novels; serialization, gender issues; authors and editors; and valuation. Offered: On demand.

ENGLISH 356 Studies in Poetry
An intensive study of poetry through the examination of a specific topic or the works of particular poets, for instance: Love, Seduction, and Betrayal; Form and Change; Death, Grief, and Consolation; Whitman, Dickinson, and the Soul; Sacred Poetry; Poetry and Metaphysics; The Long Poem; The Comic Poem; Sonnet, Sonnet Sequence and the Lyric; The Voyage; Nature, Self, and the Romantic Poet.

ENGLISH 360 The Modern Novel
A study of the 20th-century novel, American, British and Continental, with attention to the development of fiction during this century. This course deals with novelists principally active before 1930, such as Conrad, James Joyce, Kafka, Hemingway, Lawrence, Woolf, Mann, Fitzgerald, and others. Offered: Fall.

ENGLISH 365 Contemporary Novel
This course focuses on selected novelists since 1945 and is organized around particular literary themes, sub-genres, or contemporary issues.

ENGLISH 365WI Contemporary Novel
This course focuses on selected novelists since 1945 and is organized around particular literary themes, sub-genres, or contemporary issues. Prerequisite: Successful completion of the WEPT.

ENGLISH 375 Colonial Literature
An exploration of colonialism through the study of a variety of texts, which may include literary, historical, and theoretical texts. These texts should represent the formation and elaboration of discourses surrounding colonialism. Texts will be drawn from more than one genre and from the metropole as well as multiple colonial contexts. The course will consider several definitions of colonialism and related terms such as empire, imperialism, and nationalism. Prerequisite: None.

ENGLISH 376 Ancient Concepts of the Hero
This course traces the ancient concept of the hero by reading selected ancient works by authors such as Homer, Thucydides, Livy, Plutarch, Ceasar, Tacitus, and Sallust. Students will also examine the impact of the ancient concept of the hero on modern literature and art. Also listed as CLASSICS 376.

ENGLISH 378 Asian American Literature
This course examines literary and cultural texts produced by Asian Americans from the nineteenth century to the present. Texts will be drawn from a variety of genres and from several Asian American groups in order to examine how Asian American literature engages, challenges, revises, and reinvents American literary traditions. The course will identify and explore specific cultural and political issues that have shaped the writings, including transnationalism, immigration, racial identity, group identity, and community. Authors may include Carlos Bulosan, Maxine Hong Kingston, John Okada, Bienvendo Santos, and Hisaye Yamamoto.

ENGLISH 400CA Cluster Course: Images Of The Human Body In Renaissance
Focusing on Renaissance conceptions of the human body, this cluster treats the following topics as they are reflected in Renaissance literature, art, astrology, astronomy, biology, anatomy, medicine and politics: A) The dignity of the human body B) Microcosm and macrocosm C) The human body and the heavens D) Stranger manifestations: freaks and beasts E) The humors F) Disorders of the human body G) The body politic H) The human body as an object of study.

ENGLISH 400CB England King's And Shakespeare's: Literature, History, Film
The aim of this cluster course is to study the historical and dramatic personae of selected English kings: John, Richard II, Henry IV, Henry V, Henry VI, Richard III, and Henry VIII. In common sessions History and English will alternate lectures. The English focus will be on Shakespeare's two tetralogies and individual histories, discussing significant themes, characters and performance elements. Students will also be asked to familiarize themselves with the critical commentaries on these plays, especially recent theoretical studies about politics and gender construction. Film versions of the plays will be shown to demonstrate how directorial interpretation influences an audience's perception of these kings and their worlds. In addition to two exams and shorter
written exercises, students will be required to write an interdisciplinary essay. Graduate students will be expected to write longer, more extensively researched papers.

**ENGLISH 400CF Cluster Course: Courts And Culture In The Middle Ages**
This cluster course offers an interdisciplinary approach to the study of the Middle Ages, focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety of documentary and literary texts to investigate not only the "high culture" of the courts but also the interactions of people from various social backgrounds in Western Europe. Cross listed with FRN-LNG 400CF and HISTORY 400CF.

**ENGLISH 400CF Cluster Course: Courts And Culture In The Middle Ages**
This cluster course offers an interdisciplinary approach to the study of the Middle Ages, focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety of documentary and literary texts to investigate not only the "high culture" of the courts but also the interactions of people from various social backgrounds in Western Europe. Cross listed with FRN-LNG 400CF and HISTORY 400CF.

**ENGLISH 400CQ Cluster Course: Sinai And Olympus: Two Views Of Man And God**
An examination of the two distinct views of the universe and the place of man and God in it as reflected in the literature of the Hebrews and the Greeks. A comparison of the various types of creative expression such as philosophy, historical writing, drama, rhetoric, and law. Readings are in English.

**ENGLISH 404 Old English**
This course is a study of Old English, its grammar, its poetic style, and its literature, both poetry and prose.

**ENGLISH 405 Magazine Editing**
A course combining academic study of editorial management, publishing operations and language skills, with "hands on" experience in article evaluation, editing, magazine production, and legal matters such as copyright and libel. Class work concentrates on authentic and effective language use, with attention given to copy editing, grammar, typography, printing processes, financing and distribution for commercial and small-press publications.

**ENGLISH 406CD CC: Film Adaptation**
The class will explore the process of adapting both fiction and non-fiction literary works into motion pictures. Students will examine the original literary source, then the interim screenplay and finally the completed motion picture. Offered: On Demand.

**ENGLISH 408 Harlem Renaissance**
This course examines the period from 1920 to 1940, known as the Harlem Renaissance, a time of unprecedented literary and cultural creativity by Black artists. This course explores a variety of cultural productions, not only traditional forms of literature such as novels, short stories, plays and poetry, but also nonliterary objects of study such as painting, sculpture, and music.

**ENGLISH 410 Black Women Writers**
This course explores the writings of African American Women Writers. The course examines how these writers have interacted with and often revised stereotypical representations of African American womanhood typically found within canonical and African American male literatures. The course will examine literature (which might include fiction, poetry, autobiography, and drama) of the nineteenth and twentieth centuries; the majority of the works will be by modern and contemporary authors such as Nella Larsen, Zora Neale Hurston, Toni Morrison, and Terry McMillan. By placing the works in this sort of cultural and historical context, it will be possible to examine the unique tradition of African American women's writing as well as individual texts. Prerequisite: None.

**ENGLISH 412 Chaucer**
Readings from Chaucer's most important works, especially ""The Canterbury Tales"" and ""Troilus and Criseyde"" with emphasis on them as types of medieval genres and on the Middle English language. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students.

**ENGLISH 413 Renaissance Literature I**
English literature from the time of Wyatt and Surrey to the beginning of the 17th century, including the works of Spenser, Marlowe, Sidney, Shakespeare and others. Prerequisite: English 317 or permission of the instructor. This prerequisite applies only to undergraduate students.
ENGLISH 414 Milton
A study of Milton's prose and poetry, with special attention to "Paradise Lost". Prerequisite: English 317 or permission of the instructor. This prerequisite applies only to undergraduate students. Offered: On demand.

ENGLISH 415 Restoration And Early 18th-Century British Literature
British literature from the late 17th century to the mid 18th century. Selected writers may include Addison and Steele, Behn, Congreve, Defoe, Dryden, Finch, Milton, Pope, Rochester, Swift, and Wordsley Montagu. Prerequisites: ENGLISH 317 or permission of instructor. Offered: On demand.

ENGLISH 416 The Romantic Period
An extensive study of selected writers (such as Austen, Barbauld, Byron, Coleridge, Hazlitt, Hemans, Keats, Gilpin, the Shelleys, Wollstonecraft, and Wordsworth) organized around literary themes and/or cultural issues important to the Romantic period. Prerequisite: ENGLISH 327 or permission of the instructor. This prerequisite applies only to undergraduate students.

ENGLISH 417 Modern Poetry
Study of works by modernist poets such as Hopkins, Yeats, Frost, Stevens, Williams, Moore, Pound, H.D., Eliot, Millay, Hughes. Offered: On demand.

ENGLISH 418 19th-Century American Literature
An intensive study of either selected major American writers in the 19th century or of 19th-century literary movements. Prerequisite: English 311 or permission of instructor. This prerequisite applies only to undergraduate students.

ENGLISH 422 Medieval Literature
Western religious and secular verse and prose to the 15th century. Late Middle English works are read in the original; all other selections in translation. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students. Offered: On demand.

ENGLISH 423 Renaissance Literature II
English literature from 1600 to the beginning of the Restoration, including the works of Donne, Jonson, Milton and other contemporaries. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students. Offered: On demand.

ENGLISH 424 18th-Century British Literature II
British literature in its critical and historical context from 1750 to 1798. The writers studied may include Blake, Burney, Collins, Johnson, and Gray. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students. Offered: On demand.

ENGLISH 426 The Victorian Period
An intensive study of selected writers (such as Arnold, Braddon, the Brontes, the Brownings, Dickens, Darwin, Eliot, Gaskell, Hardy, Ruskin, and the Rossetris) organized around literary themes and/or cultural issues important to the Victorian period. Prerequisite: ENGLISH 327 or permission of the instructor. This prerequisite applies only to undergraduate students.
episode springboards and a pilot episode. Cross-listed with COMM-S 454 Advanced Screenwriting. Prerequisites: ENG 339/COMM-S 354 Introduction to Screenwriting or permission of instructor.

ENGLISH 430W1 Advanced Technical Writing
This course is designed for those who plan to do or teach professional, business, or technical writing. Beginning with a brief background in the history of technical writing, the course will deal with current theories and methods of teaching technical and professional writing, and will cover such areas as business usage; technical linguistic problems and theories; the language of contracts, specifications, and other binding documents; and computer-oriented problems. Prerequisite: Successful completion of the WEPT. Offered: Every Semester.

ENGLISH 431 18th-Century British Literature
British literature from the mid to late 18th century. Selected writers may include Blake, Burney, Collins, Equiano, Fielding, Gray, Johnson, Sheridan, and Wollstonecraft.

ENGLISH 432W1 Advanced Creative Writing Prose
A course for advanced students of fiction writing. Open to students who have taken English 312 or its equivalent. The class will proceed through analysis of models, discussion of general principles, critique of student work. Students will simultaneously be encouraged to experiment and to refine the form and subjects best suited to their talents. Emphasis will remain on the short story, though there may be units in other forms--novella, film script, the non-fiction essay.

ENGLISH 433 Histories Of Writing, Reading, And Publishing
A study of selected topics concerning the material practices of writing, reading, and publishing within specific cultural and historical contexts. Issues examined may include authorship, education, information technologies, libraries, literacy, periodicals, popular literature, publishers, and communities of readers. Prerequisite: One appropriate introductory course at the 300 level. Offered: On Demand.

ENGLISH 434 Postcolonial Literature
An exploration of postcolonialism through the study of literary and theoretical texts created by or representing peoples whose historical experience has been decisively shaped by the experience or legacies of colonialism. Texts will be drawn from a variety of genres and from several countries. The course will consider several definitions of postcolonialism and related terms such as cosmopolitanism, hybridity, diaspora, and nationalism. Cross-listed with ENGLISH 5534. Offered: On demand.

ENGLISH 434 Postcolonial Literature
An exploration of postcolonialism through the study of literary and theoretical texts created by or representing peoples whose historical experience has been decisively shaped by the experience or legacies of colonialism. Texts will be drawn from a variety of genres and from several countries. The course will consider several definitions of postcolonialism and related terms such as cosmopolitanism, hybridity, diaspora, and nationalism. Cross-listed with ENGLISH 5534. Offered: On demand.

ENGLISH 435W1 Advanced Creative Writing Poetry
An advanced poetry workshop that includes intensive reading of contemporary poetry and aims at each student creating a portfolio of publishable poems. The focus of the course will vary to address a variety of topics such as metaphor and closure; imitation and the line; form and voice. May be repeated once for credit. Prerequisite: For Undergraduates Restrictions: ENGLISH 315 or equivalent. Offered: On demand.

ENGLISH 436W1 Poetic Forms
An advanced creative writing course that focuses on intensive study of and practice in metrics and traditional and nonce forms. May be repeated once for credit. Prerequisite: For Undergraduates; Restrictions: ENGLISH 315 or equivalent. Offered: On demand.

ENGLISH 437W1 Prose Forms
The making of a work of prose requires expertise with the structure of the chosen form, and an understanding of the relationship of form to content. This class teaches the techniques for planning and drafting major prose forms which could include the very-short story, the story, novella, novel, linked-story collection, episodic novel, essay novel, the play, the creative nonfiction book, and others. Students will learn how to create particular prose forms and how to use content as a guide to inventing new forms. We will examine some of the best examples of both traditional and newly invented forms by writers such as Anton Chekhov, Katherine Anne Porter, Tim O'Brien, and Sandra Cisneros. Prerequisite: ENGLISH 312. Offered: Each year.

ENGLISH 438 The ""New Letters"" Writing Conference
An intensive weekend conference for creative writers of varying genres and levels of experience, published and unpublished -- fiction, poetry, nonfiction, stage and screen. The conference includes creative and interdisciplinary sessions on writing and publishing, genre-specific workshops, socializing and networking opportunities, and private manuscript consultations. The course of study for two-and three-credit students includes selected reading and post-weekend tutorial time conducted by accomplished,
working writers. The conference may be repeated once for credit. Two- and three-credit students need the instructor's consent and must have taken a 300-level creative-writing course in the focus genre prior to enrolling. Prerequisites: 2- and 3-credit students must have previous coursework at the 300 level in Creative Writing in the focus genre.

ENGLISH 439 Shakespeare and Film
Grounded in the close analysis of texts, this course examines film adaptations of Shakespeare's plays across the range of dramatic genres (history plays, tragedy, comedy, and romance). This course is open to seniors and graduate students only. Graduate students will be responsible for supplemental critical readings. Prerequisite: Eng 323

ENGLISH 440 American Culture
Texts that offer perspectives on key historical themes of American culture. Texts may be grouped around any culturally significant principle (e.g., region, race, gender, class, ethnicity, religion) or theme (e.g., the mythology of the frontier, marriage and domesticity, the American Dream). The course may be taken twice for credit, provided substantive changes in topic. Prerequisites: ENGLISH 311 and ENGLISH 321 or permission of the instructor. These prerequisites apply only to undergraduate students. Offered: On demand.

ENGLISH 441 Girls And Print Culture
This course deals with girls' relationships to the continually evolving print culture. Students will examine various literary representations of girlhood by adult writers, explore texts directed at girls (e.g., conduct books, periodicals, textbooks), and study the writing and reading practices of girls themselves.

ENGLISH 442 Playwriting I
Theory and practice of writing for the theatre with emphasis on the basic techniques.

ENGLISH 443 Playwriting II
Theory and practice of writing for the theatre with emphasis on advanced techniques.

ENGLISH 445 History And Principles Of Rhetoric
A study of selected writings of ancient, and modern rhetoricians illustrating key issues in the development of Western discourse theory and practice. Issues examined include the relationships between rhetoric and knowledge, orality and literacy, and rhetoric and poetics. Attention will also be given to the implications of rhetorical theory for modern language instruction. Prerequisites: None. Offered: on demand.

ENGLISH 447 Introduction To Literary Criticism
An introduction to major schools or methods of literary criticism. The first third of the course is an historical overview of criticism from Aristotle to Northrop Frye. The remainder of the semester is devoted to a study of genetic, formalist, mimetic, affective, intertextual, and deconstructionist approaches. Prerequisite: junior or senior status and six hours of literature.

ENGLISH 448 External Internship
Students may complete an external internship involving writing and editing with a publishing company, trade magazine, literary or academic journal, other print or electronic media organization, or with advertising, public relations, or non-profit firms. Internships are granted on a competitive basis. Students will compile a portfolio of their work under the direction of the internship supervisor to be submitted for evaluation by their chosen faculty mentor. Students will work 5 hours per week per credit hour.

ENGLISH 449A Publication Practicum
This course provides practical experience with New Letters magazine, New Letters on the Air, and BkMk Press in business analysis/reporting, copy-editing, manuscript evaluation, promotion/grant development, library research, market research, and other skills. The practicum is limited to three students per semester, to be chosen on the basis of demonstrated writing and organizational skills. References are required. May be taken for no more than three credit hours over a maximum of two semesters. Permission of the instructors required. Prerequisite: None.

ENGLISH 449B Publication Practicum
This course covers the basics of producing an issue of an academic journal. Students acquire hands-on experience at all stages of production. In addition to production work on essays for the journal, each student prepares a manuscript of his/her own (e.g. critical essay, creative piece, review or review essay) for submission to an appropriate journal or other venue. Restrictions: Consent of the instructor.
Consent of the instructor.

**ENGLISH 450** Special Readings
Intensive individual readings in a field, genre, or individual figure to be selected by a student or a group of students in consultation with an instructor willing to direct the project. Generally limited to graduating seniors who have completed the majority of the work for their major. Not open to students in their first semester at UMKC. May be repeated for credit. No more than six hours of independent study (exclusive of ENGLISH 499) may be used to fulfill the 33-hour requirement for the English major. Offered: Every semester. Arrangements must be made prior to registration.

**ENGLISH 450A** Special Readings

**ENGLISH 450B** Special Reading Science Fiction

**ENGLISH 450F** Special Readings African Literature

**ENGLISH 450H** Special Readings Black Drama

**ENGLISH 450I** Special Reading Short Story Cycles

**ENGLISH 451** Shakespeare Comedies And Histories
A study of Shakespeare's major comedies and history plays with special emphasis on his dramatic works before 1600. Prerequisites: ENGLISH 317 and ENGLISH 323 or permission of the instructor. These prerequisites apply only to undergraduate students.

**ENGLISH 452** Early English Drama
English religious and secular drama prior to Shakespeare. Mystery and morality plays are studied, with emphasis on their literary and social backgrounds. Close reading of such works as ""Everyman,"" ""The Wakefield Second Shepherd's Play,"" and ""The Spanish Tragedy."" Prerequisites: ENGLISH 317 and ENGLISH 323 or permission of the instructor. These prerequisites apply only to undergraduate students. On demand.

**ENGLISH 453** Modern Drama, 1880-1945
A study of modern drama: Continental, British, and American, including history and development, critical theory, and literary evaluation. This course will focus on the earlier modern playwrights from Ibsen and Shaw, with special attention to naturalism. Offered: On demand.

**ENGLISH 455** Studies In The Novel 1740-1900
An intensive study of no more than three major novelists of the eighteenth or nineteenth century. The content of the course will change, depending on the instructor. Prerequisite: The completion of six hours of literature or permission of the instructor.

**ENGLISH 460** Special Offerings
The visiting professor who gives this course determines what its content shall be. All aspects of literature and linguistics are within its possible range. On demand.

**ENGLISH 461** Shakespeare Tragedies And Romances
A study of Shakespeare's major tragedies and late romances with special emphasis on his dramatic literature after 1600. Prerequisites: ENGLISH 317 and ENGLISH 323 or permission of the instructor. These prerequisites apply only to undergraduate students.

**ENGLISH 460PW** Written Discourse: Speaking, Writing, Composing
Prerequisite: Successful completion of the WEPT (effective FS93).

**ENGLISH 461** Shakespeare Tragedies And Romances
A study of Shakespeare's major tragedies and late romances with special emphasis on his dramatic literature after 1600. Prerequisites: ENGLISH 317 and ENGLISH 323 or permission of the instructor. These prerequisites apply only to undergraduate students.
students. Offered: On demand.

**ENGLISH 462 Restoration And 18th-Century Drama**
The drama after the restoration of the monarchy and the reopening of the theaters through the 18th century. Special emphasis is placed on the comedy of manners and the heroic drama in the Restoration and the sentimental comedy in the 18th century. Includes such playwrights as Dryden, Congreve, Etherege, Wycherley, Steele, Lillo, Cumberland, Sheridan, and Goldsmith. Prerequisite: English 317 or permission of the instructor. This prerequisite applies only to undergraduate students. On demand.

**ENGLISH 463 Contemporary Drama II**
A study of contemporary drama: Continental, British, and American, including history and development, critical theory and literary evaluation. This course will focus on the more recent writers, including the absurdist, with special attention to experimental drama. This course is a continuation of ENGLISH 453. Offered: On demand.

**ENGLISH 465 Studies In The Modern Novel**
An intensive study of no more than three major 20th-century novelists. The content of the course will change, depending on the instructor. Prerequisite: The completion of six hours of literature or permission of the instructor.

**ENGLISH 470 Introduction To Descriptive Linguistics**
General introduction to linguistics science. Linguistic analysis, structures and change. Language families. Historical reconstruction. Generative grammar. Prerequisite: English 310 or permission of instructor. The prerequisite only applies to undergraduate students. Offered: On demand.

**ENGLISH 475 Creative Nonfiction**
This course emphasizes the study and crafting of creative nonfiction. Special attention is given to developing the writing techniques required to shape publishable narratives out of experience. Prerequisites: English 312, 315, 316WI or instructor permission.

**ENGLISH 482 European Literature: 18Th Century**
The 18th-century course will focus on a representative sampling from authors such as Corneille, Racine, Moliere, Voltaire, Prevost, La Bruyere, La Rochefoucauld, Montesquieu, Diderot, Rousseau, Schiller, Goethe, and Grimmelshausen. Prerequisite: 6 hours of literature or permission of the instructor.

**ENGLISH 483 European Literature: 19Th Century**
The 19th century course will focus on representative works from authors such as Stendhal, Balzac, Flaubert, Zola, Lermontov, Gogol, Tolstoy, Dostoyevsky, Kleist, Hoffman, Hugo, and Monzoni. Prerequisite: 6 hours of literature or permission of the instructor.

**ENGLISH 498 Senior Seminar On Writing In The Secondary Classroom**
This course is intended to help students move from discussions of education & composition theory to classroom research and practice. Students will examine their own language uses, study current composition pedagogy, and undertake action research projects in cooperation with teachers affiliated with the Greater Kansas City Writing Project. In a culminating study, students will compile their action research data and prepare classroom resources based on their findings. English 498 is designed for English Secondary Education majors. Other education majors may enroll with instructor's permission. This course is offered fall semester only and cannot be taken for graduate credit. Prerequisite: None Offered: Fall Semester Only

**ENGLISH 499 Senior Tutorial**
A comprehensive tutorial for students who have a faculty-approved research project. The project will culminate in a critical study of 20-25 pages or a creative writing portfolio of similar length. This course is appropriate for students who intend to continue their studies at the graduate level. Restrictions: Students must have permission of the instructor and of the Director of Undergraduate Studies before enrolling in this course.

**Environmental Science (ENV-SCI)**
**ENV-SCI 110L Understanding The Earth Laboratory**
Laboratory and field demonstration and exercises in environmental science. Weekly exercises or field trips. This lab should
preferably be taken in the same semester as ENV-SCI 110R. Prerequisite: None Offered: Each semester

ENV-SCI 110L Understanding The Earth Laboratory
Laboratory and field demonstration and exercises in environmental science. Weekly exercises or field trips. This lab should preferably be taken in the same semester as ENV-SCI 110R. Prerequisite: None Offered: Each semester

ENV-SCI 110R Understanding The Earth
This introductory course surveys the processes that shape our planet. Topics include: plate tectonics and mountain-building, rivers and oceans, atmospheric circulation, weather and climate, and the amazingly complex relationships between life on earth and the physical environment. Prerequisite: None Offered: Each semester

ENV-SCI 110R Understanding The Earth
This introductory course surveys the processes that shape our planet. Topics include: plate tectonics and mountain-building, rivers and oceans, atmospheric circulation, weather and climate, and the amazingly complex relationships between life on earth and the physical environment. Prerequisite: None Offered: Each semester

ENV-SCI 210 Issues In Environmental Science
Explores important environmental issues such as air and water pollution, water supply, climate change, agriculture and food supply, environmental health, ecosystem disruption, environmental management, environmental ethics, and energy resources. Topics may vary depending on current events. Offered: Fall and Winter

ENV-SCI 210 Issues In Environmental Science
Explores important environmental issues such as air and water pollution, water supply, climate change, agriculture and food supply, environmental health, ecosystem disruption, environmental management, environmental ethics, and energy resources. Topics may vary depending on current events. Offered: Fall and Winter

ENV-SCI 220 Ecosystem Science for Decision Makers
This course addresses the fundamentals of ecosystem science with an emphasis on human-induced change in natural systems, Course content characterizes the biological patterns found in nature emphasizing application of underlying principles, Scientific tools are provided to evaluate ecosystem concerns and make informed decisions.

ENV-SCI 310 Field Experience In Waste Management
This course provides an overview of waste management issues, including nature, classification and disposal of various wastes; and U.S. laws governing the management of solid, hazardous, biologic and nuclear waste. Lectures and discussions will be supplemented by visits to waste management facilities to study methods and technologies used for treatment and disposal of wastewater, solid, hazardous, and biologic wastes. This field-intensive course includes travel to neighboring states and includes an overnight out-of-town stay. Final report required. Prerequisites: Jr/Sr of instructor's consent. Offered: Summer.

ENV-SCI 310 Field Experience In Waste Management
This course provides an overview of waste management issues, including nature, classification and disposal of various wastes; and U.S. laws governing the management of solid, hazardous, biologic and nuclear waste. Lectures and discussions will be supplemented by visits to waste management facilities to study methods and technologies used for treatment and disposal of wastewater, solid, hazardous, and biologic wastes. This field-intensive course includes travel to neighboring states and includes an overnight out-of-town stay. Final report required. Prerequisites: Jr/Sr of instructor's consent. Offered: Summer.

ENV-SCI 332CZ Environmental Sustainability
This course will introduce the concept of sustainability and review how sustainability might work at the individual, neighborhood, state, nation and global scales. Students will participate in some form of community engagement on sustainability as well as reflect upon how their own practices impact the environment.

ENV-SCI 332CZ Environmental Sustainability
This course will introduce the concept of sustainability and review how sustainability might work at the individual, neighborhood, state, nation and global scales. Students will participate in some form of community engagement on sustainability as well as reflect upon how their own practices impact the environment.

ENV-SCI 449 Global Water and Sustainability
This course examines the physical characteristics of water and its role in Earth systems. The challenges facing societies in as era of rapidly changing climate are explored. Cross-listed with Geography 446.

ENV-SCI 449 Global Water and Sustainability
This course examines the physical characteristics of water and its role in Earth systems. The challenges facing societies in as era
of rapidly changing climate are explored. Cross-listed with Geography 446.

**ENV-SCI 496 Environmental Internship**

Students obtain practical experience working for local engineering and environmental firms, or governmental agencies. Specific duties and application requirements will vary depending on the funding organization's needs. Junior or senior standing required for undergraduates. Applicant(s) must be accepted for the position prior to enrollment. Prerequisite: Permission of instructor.

Offered: Summer, Fall or Winter as available.

**ENV-SCI 496 Environmental Internship**

Students obtain practical experience working for local engineering and environmental firms, or governmental agencies. Specific duties and application requirements will vary depending on the funding organization's needs. Junior or senior standing required for undergraduates. Applicant(s) must be accepted for the position prior to enrollment. Prerequisite: Permission of instructor.

Offered: Summer, Fall or Winter as available.

**Environmental Studies (ENV-STDY)**

**ENV-STDY 325 Cultural Perspectives on the Environment**

This course explores the history of conservation practices in American agriculture from the 1700s through the present. Additionally, the course examines the past and present legal implications of environmental statutes for minority farmers from a social and environmental justice perspective. This course is also offered as Geography 325.

**ENV-STDY 325 Cultural Perspectives on the Environment**

This course explores the history of conservation practices in American agriculture from the 1700s through the present. Additionally, the course examines the past and present legal implications of environmental statutes for minority farmers from a social and environmental justice perspective. This course is also offered as Geography 325.

**ENV-STDY 334 Gender and the Environment**

This course provides a survey of different ways women relate to nature. The objectives of the course are: to understand historical relationships between women and nature in the western world, to understand different theoretical approaches to studying women and nature, to explore the geography of women's activism on behalf of the environment, and to understand how women's health is linked to the environment. Cross-listed with Geography 334.

**ENV-STDY 334 Gender and the Environment**

This course provides a survey of different ways women relate to nature. The objectives of the course are: to understand historical relationships between women and nature in the western world, to understand different theoretical approaches to studying women and nature, to explore the geography of women's activism on behalf of the environment, and to understand how women's health is linked to the environment. Cross-listed with Geography 334.

**ENV-STDY 345 Animals and Society**

This course explores the wide variety of cultural and ecological interactions that exist between people and animals whether wild or domesticated, aquatic, terrestrial, or avian. Utilitarian and ethical perspectives are used to study current patterns of use and abuse in animal keeping. Cross-listed with Geography 345.

**ENV-STDY 345 Animals and Society**

This course explores the wide variety of cultural and ecological interactions that exist between people and animals whether wild or domesticated, aquatic, terrestrial, or avian. Utilitarian and ethical perspectives are used to study current patterns of use and abuse in animal keeping. Cross-listed with Geography 345.

**ENV-STDY 412 Global Tourism**

This course is a regional survey of world tourism. Topics include the uniqueness of place, the marketing of tourist destinations, and the cultural, economic, and environmental impacts on host societies. This course is cross-listed with Geography 412. Prerequisites: Geog 105, or Geog 200, or Geog 202, or permission of instructor.

**ENV-STDY 430 Soil And Groundwater Remediation**

Review of basic geoenvironmental concepts. Nature, cause, and occurrence of contaminated soil and groundwater. Principles of remediation, discussion of cleanup goals and various remediation alternatives and technologies. Design a remediation system: Project planning, data requirements, cost considerations, and implementation. A class project is required. Prerequisites: GEOLOGY 335 / GEOG 335 or permission of instructor. Offered: Winter

**ENV-STDY 430 Soil And Groundwater Remediation**

Project planning, data requirements, cost considerations, and implementation. A class project is required. Prerequisites: GEOLOGY 335 / GEOG 335 or permission of instructor Offered: Winter

ENV-STDY 450 Ecotoxicology
This course addresses the fundamentals of ecotoxicology, integrating the sciences of ecology and toxicology. Students will learn the biological basis for pollutant effects on individuals and populations of plants and animals, how pollutant intensity varies as a function of bioavailability, the basics of risk assessment, and how pollutant effects are modified by ecological interactions within communities and ecosystems. The ultimate goal of ecotoxicology is to predict the effects of pollution within an ecological context. This course will be offered every other spring semester. Prerequisites: Chem 211/212, Biol 108, or permission of instructor.

ENV-STDY 499WI Environmental Studies Practicum
Students conduct research, participate in discussions, and prepare written reports on selected topics concerning the environment. Prerequisites: Senior standing and successful completion of the WEPT exam. Offered: Winter.

ENV-STDY 499WI Environmental Studies Practicum
Students conduct research, participate in discussions, and prepare written reports on selected topics concerning the environment. Prerequisites: Senior standing and successful completion of the WEPT exam. Offered: Winter.

Foreign Language (FRN-LNG)
FRN-LNG 180 Special Elementary Foreign Languages Topics I
Instruction in foreign languages at the elementary level. Essentials of grammar, basic conversation and reading, practical vocabulary. May include introduction of new methods of foreign language teaching, special texts, and languages not offered through regular courses. As needed.

FRN-LNG 190 Special Elementary Foreign Languages Topics II
Continuation of Foreign Languages and Literature 180. Prerequisite: Elementary I college-level course or equivalent. As needed.

FRN-LNG 280 Special Intermediate Foreign Languages Topics I
Instruction in foreign languages at the second-year intermediate level. Further development of comprehension and communicative skills. Readings of moderate difficulty and grammar review. May include introduction of new methods of foreign language teaching, special texts and topics, and new languages not offered through regular courses. Prerequisite: Elementary I & II college courses or equivalent. As needed.

FRN-LNG 290 Special Intermediate Foreign Languages Topics II
Continuation of Foreign Languages and Literature 280. Prerequisite: Third semester college level courses or equivalent. As needed.

FRN-LNG 300CM Cluster Course: Mexico, Central America And The Human Condition
Faculty from at least two different departments (one of which must be a department in the Division of Humanities including history) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A.

FRN-LNG 300CS Cluster Course: History Of Russian Culture
Faculty from at least two different departments (one of which must be a department in the Division of Humanities including history) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the program’s advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A. Fall/winter.

FRN-LNG 380 Special Topics
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of instructor. On demand.

FRN-LNG 400CF Courts and Culture in the Middle Ages
This cluster course offers an interdisciplinary approach to the study of the Middle Ages, focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety of documentary and literary texts to investigate not only the ""high culture"" of the courts but also the interactions of people from various social backgrounds in Western Europe. May be taken for French major with permission of instructor. Cross listed with ENGLISH 400CF and HISTORY 400CF.

FRN-LNG 400CI Cc:Culture,Kultur,Civilisation:Identity Formation In the Middle Classes
This cluster course will explore the dynamics of bourgeois class formation in Western Europe in the ""long"" 19th century (1750-
1920) from historical, thematic, and theoretical perspectives. It will focus on how this class-based identity developed and functioned in the context of historical and cultural changes and how the bourgeoisie defined themselves vis a vis nobles, peasants, workers, ""primitives,"" and criminals. Class assignments will include historical, literary, theatrical, anthropological, and cinemagraphic sources.

FRN-LNG 400CM Nazi-Occupied Europe & The Holocaust
With the collaboration of many other nations, Nazi Germany attempted a genocidal war to systematically colonize, relocate and annihilate entire social groups, most notably the Jews. Employing an intentionally cosmopolitan perspective, this interdisciplinary cluster-course will explore how ordinary Europeans behaved in these circumstances and the different ways that scholars have attempted to comprehend, analyze and represent those choices.

FRN-LNG 401 Linguistics And Language Teaching
A survey of issues in linguistics with particular emphasis on areas and applications pertaining to the teaching of foreign languages. Contrastive analysis of the history and structure of Germanic and Romance languages. Examination of social, cultural and biological aspects of language. Prerequisite: Two years of a foreign language at college level and junior/senior standing.

FRN-LNG 402CC CC: Making the Modern in France: Dance, Art, Music, and Literature
This cluster course will take an interdisciplinary approach to understand the way modernism developed within the arts, with a focus on late-19th, early 20th-century France. Developments in literature, art, dance, and music and their interconnectedness to cultural and historical events will be highlighted and explored. Cross-listed with Art-History 402CC and Conservatory 402CC.

FRN-LNG 470A Internship in Foreign Languages
Intern experience under faculty supervision involving the use of the appropriate foreign language with a local firm, non-profit organization, etc. students will compile a portfolio of their work under the direction of the internship supervisor to be submitted for evaluation by their chosen faculty mentor. Prerequisites: at least 9 hours prior FLL coursework in the appropriate language, junior standing, prior consent and arrangement.

FRN-LNG 470B School/Education Related Internship in Foreign Languages
Intern experience under faculty supervision involving the use of the appropriate foreign language at a local school. Students will keep a journal in the foreign language. Prerequisites: at least 9 hours of prior FLL coursework in the appropriate language, prior consent and arrangement.

FRN-LNG 480 Special Topics
Each time this course is offered a particular genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Permission of the department chairman required. On demand.

FRN-LNG 480 Special Topics
Each time this course is offered a particular genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Permission of the department chairman required. On demand.

FRN-LNG 480A Special Topics
Each time this course is offered a particular genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Permission of the department chairman required. On demand.

FRN-LNG 480A Special Topics
Each time this course is offered a particular genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Permission of the department chairman required. On demand.

FRN-LNG 480B Special Topics
Each time this course is offered a particular genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Permission of the department chairman required. On demand.

FRN-LNG 494 Methods Of Teaching Foreign Languages
Teaching methods and materials for beginning and advanced classes in French, German, and Spanish. Modern language teaching methodology and material will be evaluated and demonstrated, together with effective use of the Language Resource Center, tapes, slides, film strips, and other audio-visual materials. Prerequisite: A 3.0 grade average in the foreign language to be considered for practice teaching. Does not count toward a major in foreign language. Offered in conjunction with the School of Education.

FRN-LNG 494 Methods Of Teaching Foreign Languages
Teaching methods and materials for beginning and advanced classes in French, German, and Spanish. Modern language teaching methodology and material will be evaluated and demonstrated, together with effective use of the Language Resource Center,
tapes, slides, film strips, and other audio-visual materials. Prerequisite: A 3.0 grade average in the foreign language to be considered for practice teaching. Does not count toward a major in foreign language. Offered in conjunction with the School of Education.

**FRN-LNG H400CM (HONORS) Nazi-Occupied Europe & The Holocaust**
With the collaboration of many other nations, Nazi Germany attempted a genocidal war to systematically colonize, relocate and annihilate entire social groups, most notably the Jews. Employing an intentionally cosmopolitan perspective, this interdisciplinary cluster-course will explore how ordinary Europeans behaved in these circumstances and the different ways that scholars have attempted to comprehend, analyze and represent those choices.

**French (FRENCH)**

**FRENCH 110 Elementary French I**
The goals of this course are an ability to speak and to understand simple (spoken) French as well as to read and write simple prose. Every semester.

**FRENCH 110 Elementary French I**
The goals of this course are an ability to speak and to understand simple (spoken) French as well as to read and write simple prose. Every semester.

**FRENCH 120 Elementary French II**
Continuation of FRENCH 110. Every semester. Prerequisite(s): FRENCH 110 or equivalent. Semester Offered: Every Semester.

**FRENCH 211 Second Year French I**
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: FRENCH 120. Every semester.

**FRENCH 211 Second Year French I**
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: FRENCH 120. Every semester.

**FRENCH 221 Second Year French II**
Continuation of FRENCH 211. Winter.

**FRENCH 250 Commercial French**
Business practices in correspondence in the French language; special vocabulary of business, trade, banking and administration. Refinement of grammatical and stylistic skills. Subjects treated include price inquiries, quotations, offers, orders, complaints, administrative, banking, and diplomatic correspondence. Prerequisite: FRENCH 221 or equivalent.

**FRENCH 280 Special Intermediate French Topics I**
Instruction of French on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

**FRENCH 290 Special Intermediate French Topics II**
Continuation of FRENCH 280. May not be repeated for credit. As needed.

**FRENCH 301 Introduction To French Literature**
An introduction to the study of different genres of French literature and techniques of criticism. Readings include representative works of major authors from various periods. Strongly recommended for all majors, to be taken before or concurrently with other literature courses. Taught in French. Spring.

**FRENCH 301 Introduction To French Literature**
An introduction to the study of different genres of French literature and techniques of criticism. Readings include representative works of major authors from various periods. Strongly recommended for all majors, to be taken before or concurrently with other literature courses. Taught in French. Spring.

**FRENCH 303 Masterpieces Of French Literature I**
An introduction to the history of French literature from the Middle Ages to 1800 stressing the historical context, the major literary movements, and the development of the various genres. Selected readings of the works of the major authors of the period.
Taught in French.

**FRENCH 303 Masterpieces Of French Literature I**  
An introduction to the history of French literature from the Middle Ages to 1800 stressing the historical context, the major literary movements, and the development of the various genres. Selected readings of the works of the major authors of the period. Taught in French.

**FRENCH 304 Masterpieces Of French Literature II**  
An introduction to the history of French literature from 1800 to the present stressing historical context, the major literary movements and the developments of the various genres. Selected readings of the works of major authors of the period. Taught in French.

**FRENCH 315 Intermediate Conversation And Composition I**  
Grammar review: practice in speaking and writing French; emphasis on idiomatic usage and practical vocabulary. Required for major. Prerequisite: FRENCH 221 or equivalent. Every fall.

**FRENCH 325 Intermediate Conversation And Composition II**  
Continuation of FRENCH 315. Required for major. Prerequisite: FRENCH 315. Every winter.

**FRENCH 340WI French Texts In Translation**  
Seminor on French texts in translation. Class will be conducted in English and no knowledge of French is necessary. May be taken for major credit upon prior consultation with the instructor. Prerequisites: ENGLISH 110, ENGLISH 225, and WEPT.

**FRENCH 350 French Civilization I**  
An historical introduction to French civilization and culture with emphasis on historical, social and cultural development. Prerequisites: FRENCH 221 or equivalent.

**FRENCH 351 Introduction To French Phonetics**  
Drill and practice in pronunciation in class and in language laboratory. Prerequisite: FRENCH 221 or equivalent or permission of instructor.

**FRENCH 352 French Civilization II: Contemporary French Civilization**  
An in-depth survey of contemporary French culture, including major historical events and movements that have shaped modern France, as well as geography, the political system, family life and education, economics, etc. Prerequisites: FRENCH 221 or the equivalent.

**FRENCH 354 French Civilization III: Lyon, Crossroads Of France And Europe**  
An introduction to French culture and civilization through the history, geography, culture and arts of Lyon and its region. Offered during the Study Abroad Program in Lyon. Offered: Summer semester.

**FRENCH 380 Special Topics**  
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor. On demand.

**FRENCH 400CF Courts and Culture in the Middle Ages**  
This cluster course offers an interdisciplinary approach to the study of the Middle Ages, focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety of documentary and literary texts in investigate not only the "high culture" of the courts but also the interactions of people from various social backgrounds in Western Europe. May be taken for French major with permission of instructor. Cross listed with ENG. 400CF and HIST 400CF.
FRENCH 412 17Th Century French Literature
Selected readings in the literature of the 17th century, with an emphasis on non-dramatic works. Also offered as FRENCH 5512.

FRENCH 413 18Th-Century French Literature
Emphasis on philosophical and social significance. Authors may include Marivaux, Beaumarchais, Le Sage, L’Abbe Prevost, Montesquieu, Rousseau, Diderot. Also offered as FRENCH 5513.

FRENCH 413 18Th-Century French Literature
Emphasis on philosophical and social significance. Authors may include Marivaux, Beaumarchais, Le Sage, L’Abbe Prevost, Montesquieu, Rousseau, Diderot. Also offered as FRENCH 5513.

FRENCH 414 Medieval Literature
Selected readings in various genres including epic, romance, theater and lyric. Emphasis will be placed on the intertextual relations and the cultural and historical context surrounding text production in the Middle Ages. Also offered as FRENCH 5514.

FRENCH 415 Advanced Conversation And Composition I
Practice in speaking and writing French, with attention to the elements of style. Continued in FRENCH 425. First semester required of all majors and second semester recommended. Both semesters required of prospective high school teachers. Either or both semesters may be repeated with the consent of the instructor and the French section head. No more than six hours credit may be applied towards a degree. Prerequisite: FRENCH 325. Offered: Fall.

FRENCH 417 16Th-Century French Literature
Selected readings in prose and poetry from Marot through Astree. Authors may include Rabelais, Ronsard, du Bellay, Montaigne, Marguerite de Navarre. Also offered as FRENCH 5517.

FRENCH 417 16Th-Century French Literature
Selected readings in prose and poetry from Marot through Astree. Authors may include Rabelais, Ronsard, du Bellay, Montaigne, Marguerite de Navarre. Also offered as FRENCH 5517.

FRENCH 425 Advanced Conversation And Composition II
Continuation of FRENCH 415. See FRENCH 415. Required for teacher certification in French. Prerequisite: FRENCH 415. Winter.

FRENCH 426 20Th-Century French Literature
Selected readings from the Belle Epoque to the contemporary period. Also offered as French 5526.

FRENCH 426 20Th-Century French Literature
Selected readings from the Belle Epoque to the contemporary period. Also offered as French 5526.

FRENCH 435 Directed Discussions In Advanced French
Directed discussion on contemporary French culture. The discussions cover a wide range of topics on modern France: social, intellectual and cultural aspects. Students will participate and have the opportunity to observe and react within a cultural frame of reference. Open to advanced students of French and to teachers of the language for in-service training.

FRENCH 440 Medieval Romance
The various movements of French medieval romance from the 12th through 15th centuries with an emphasis on the 12th and 13th centuries. Analysis of literary technique and socio-historical context will be stressed. No knowledge of Old French is assumed. Also offered as FRENCH 5540.

FRENCH 440 Medieval Romance
The various movements of French medieval romance from the 12th through 15th centuries with an emphasis on the 12th and 13th centuries. Analysis of literary technique and socio-historical context will be stressed. No knowledge of Old French is assumed. Also offered as FRENCH 5540.
FRENCH 443 Early French Theater
An examination of the development of French theater from Late Antiquity through the Renaissance, including religious and secular drama. The focus is on literary analysis of the dramatic texts, with some consideration of theater history and dramaturgy. Also offered as French 5543. Prerequisites: French 221 or the equivalent, French 315 strongly recommended.

FRENCH 444 Renaissance Poetry
French poetry from the Grand Rhetoriqueurs through the Pleiade. Study of poetic forms, major poets and schools, and different approaches to analyzing poetry. Also offered as FRENCH 5544. Prerequisites: FRENCH 221 or the equivalent.

FRENCH 445 Epistolary And The Novel
Explorations of the genre through the analysis of 17th-and 18-century French novels. Introduced by a theoretical review. Also offered as FRENCH 5545.

FRENCH 446 17Th-Century French Drama
The classical period: Emphasis on Corneille, Racine and Moliere. Also offered as FRENCH 5546.

FRENCH 447 19Th-Century French Poetry
The study of the poetry and dominant poetic movements of the 19th-century, with special attention given to different approaches to its analysis. Also offered as FRENCH 5547.

FRENCH 448 20Th Century French Theater
Analysis of major currents of French theater of the 20th-Century, with emphasis upon the postwar period and its movements. Also offered as FRENCH 5548.

FRENCH 452 Medieval Poetry
A study of medieval poetry including religious and secular poetry, Provencal and Old French lyric, the influence of poetry in other genres such as romance and theater, later medieval poetry of the 14th and 15th centuries, as well as a discussion of the origins of the lyric. Also offered as FRENCH 5552. Prerequisites: FRENCH 221 or the equivalent.

FRENCH 454 Intellectual Origins Of The French Revolution
Study of philosophical and political texts by Montesquieu, Rousseau, Voltaire, Diderot, etc. on government, society, language, freedom and equality. Critical study of the Enlightenment. Also offered as FRENCH 5554.
FRENCH 455 Fin De Siecle And Belle Epoque
Study of the literary, cultural and historical context of this time period in French history, for example: Symbolism, Decadence, and the years 1900-1914. Also offered as FRENCH 5555.

FRENCH 455 Fin De Siecle And Belle Epoque
Study of the literary, cultural and historical context of this time period in French history, for example: Symbolism, Decadence, and the years 1900-1914. Also offered as FRENCH 5555.

FRENCH 456 20th Century French Poetry
The study of 20th-century poetry with special consideration given to different approaches to its analysis. Also offered as FRENCH 5556.

FRENCH 456 20th Century French Poetry
The study of 20th-century poetry with special consideration given to different approaches to its analysis. Also offered as FRENCH 5556.

FRENCH 457 20th Century French Narrative
The analysis of major currents in French 20th century narrative, especially fiction and film. Courses will be organized around narrative themes or historical events and will include social and cultural components. Also offered as FRENCH 5561.

FRENCH 463 19th-Century French Fiction
Studies in the birth, development and variation of French Romanticism. Readings include de Stael, Senancour, Constant, Hugo, Stendhal and Merimeee. The advent of realism and naturalism in France. Readings include Balzac, Flaubert, Daudet, De Maupassant, and Zola. Also offered as FRENCH 5563.

FRENCH 463 19th-Century French Fiction
Studies in the birth, development and variation of French Romanticism. Readings include de Stael, Senancour, Constant, Hugo, Stendhal and Merimeee. The advent of realism and naturalism in France. Readings include Balzac, Flaubert, Daudet, De Maupassant, and Zola. Also offered as FRENCH 5563.

FRENCH 470 Studies In Critical Thought
Various currents of 20th-century literary criticism and their political and historical contexts. Also offered as FRENCH 5570.

FRENCH 470 Studies In Critical Thought
Various currents of 20th-century literary criticism and their political and historical contexts. Also offered as FRENCH 5570.

FRENCH 471 Autobiography
Analysis of autobiographies and autobiographical texts such as diaries and memoirs together with theoretical texts on the genre. The concentration on different periods or issues may change from semester to semester, i.e. the art of autobiography as practiced by 20th-century writers, especially women. Also offered as FRENCH 5571.

FRENCH 471 Autobiography
Analysis of autobiographies and autobiographical texts such as diaries and memoirs together with theoretical texts on the genre. The concentration on different periods or issues may change from semester to semester, i.e. the art of autobiography as practiced by 20th-century writers, especially women. Also offered as FRENCH 5571.

FRENCH 472 Francophone Studies
Study of different national Francophone literatures. Reading may include writers from Quebec, Haiti, Africa, Louisiana, Vietnam, the French Indies, etc. Also offered as FRENCH 5572.

FRENCH 472 Francophone Studies
Study of different national Francophone literatures. Reading may include writers from Quebec, Haiti, Africa, Louisiana, Vietnam, the French Indies, etc. Also offered as FRENCH 5572.

FRENCH 480 Special Topics
Each time this course is offered a particular author, genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Offered: On demand.

FRENCH 490 Special Readings
Intensive readings in field or literary figure to be selected by the student in consultation with the instructor. Available, by permission only, to advanced students of French; available only when student cannot take regularly scheduled courses.
Prerequisite: 3.0 GPA. On demand.

**FRENCH 499** Senior Seminar (Capstone)
Required for major. Covers seminal works of French literature in their historical and cultural context. Course content varies, but will include such elements as geography, politics, folklore, history of the language, architecture, art and music. To be taken during final Winter Semester of residence. Prerequisite: 21 hours beyond first year. Offered: Winter Semester.

**GEOG 105** Introduction To The Elements Of Geography
A survey of major elements of physical and human geography, with a concise overview of the world's regions. Emphasis on global relationships and distributions, both environmental and cultural. Climates, natural vegetation, land forms, cultural origins and diffusions, economic patterns. Fall and winter.

**GEOG 150** Introduction To Physical Geography
This course is an introduction to the study of the natural environmental systems of earth—the atmosphere, the hydrosphere, the biosphere, and the lithosphere. The primary objective of the course is to provide a broad overview of these systems at a global scale. This overview will entail descriptions of natural systems and the variations they exhibit both from place to place and through time. It will also entail explaining how natural systems operate and interact with each other, thereby providing a necessary foundation for understanding the tremendously diverse physical geography of earth. Applies to natural science requirement. Prerequisites: None. Offered: Fall semester.

**GEOG 200** World Geography I
A survey of the physical and human geography of the regions and nations of Europe and the Americas, with Australia and New Zealand. The approach is strongly historical, emphasizing interconnections, shared colonial backgrounds and broader global contexts in the modern world. The course is aimed at non-specialists. See also Geography 202. Offered: Spring

**GEOG 202** World Geography II
A survey of the physical and human geography of the regions and nations of Russia and the other former Soviet republics, the Middle East, Africa, South Asia, East Asia Southeast Asia and the Pacific Realm. The approach is strongly historical emphasizing interconnections shared colonial backgrounds, and broader global contexts in the modern world. The course is aimed at non-specialists. See also Geography 200. Offered: Fall semester.

**GEOG 203** Introduction To Geographic Information Systems
An introductory course covering the basic principles of geographic information systems focusing on such software programs as
GEOG 203 Introduction To Geographic Information Systems
An introductory course covering the basic principles of geographic information systems focusing on such software programs as ARC-INFO and ARC-VIEW. Offered: Fall and Winter

GEOG 210 Human Geography
A study of the geographical underpinnings and distribution of the main elements of culture, including population patterns, language, religion, political territorial organization, settlement, and economic livelihood. The environmental settings, geographic origins, diffusion, and geographic interrelationships of these culture traits are emphasized. Offered: On demand

GEOG 210 Human Geography
A study of the geographical underpinnings and distribution of the main elements of culture, including population patterns, language, religion, political territorial organization, settlement, and economic livelihood. The environmental settings, geographic origins, diffusion, and geographic interrelationships of these culture traits are emphasized. Offered: On demand

GEOG 215 Introduction To Weather And Climate
Overview of the basic components of the climate system. Emphasis is on the basic physical processes that determine global and regional climate and the linkages between components of the climate system. The theme throughout the course will be importance of climate as one of the major forcing mechanisms in environmental change. Both human-induced and natural climate variability will be covered. Three hours of lecture and two hours of laboratory per week. Offered: Fall

GEOG 215 Introduction To Weather And Climate
Overview of the basic components of the climate system. Emphasis is on the basic physical processes that determine global and regional climate and the linkages between components of the climate system. The theme throughout the course will be importance of climate as one of the major forcing mechanisms in environmental change. Both human-induced and natural climate variability will be covered. Three hours of lecture and two hours of laboratory per week. Offered: Fall

GEOG 300 Interdisciplinary Studies:Cluster Courses

GEOG 309 Urban Geography
Historical development, morphology and functions of urban places, including intercity relationships and the relationship between cities and their hinterlands; emphasis on American cities. Offered: On Demand.

GEOG 309 Urban Geography
Historical development, morphology and functions of urban places, including intercity relationships and the relationship between cities and their hinterlands; emphasis on American cities. Offered: On Demand.

GEOG 311 Economic Geography
A systematic study of the modern world economy that includes discussion of the location of production and consumption, the nature and role of multinational enterprises in trade, resource limitations to growth, and cultural responses to globalization. Three hours lecture, discussion a week. Offered: On demand

GEOG 311 Economic Geography
A systematic study of the modern world economy that includes discussion of the location of production and consumption, the nature and role of multinational enterprises in trade, resource limitations to growth, and cultural responses to globalization. Three hours lecture, discussion a week. Offered: On demand

GEOG 314 Principles Of Geomorphology
Explores the processes that shape the earth's surface. Focuses on the development and description of fluvial, glacial, eolian, and coastal landforms. Studies the influence of tectonic and climatic factors. Three hours lecture and two hours lab per week. Field trip. Prerequisite: ENV-SCI 111R or GEOLOGY 220; GEOLOGY 230 suggested. Offered: On demand.

GEOG 314 Principles Of Geomorphology
Explores the processes that shape the earth's surface. Focuses on the development and description of fluvial, glacial, eolian, and coastal landforms. Studies the influence of tectonic and climatic factors. Three hours lecture and two hours lab per week. Field trip. Prerequisite: ENV-SCI 111R or GEOLOGY 220; GEOLOGY 230 suggested. Offered: On demand.

GEOG 317 Cartography
Design and preparation, by hand and computer, of informative, effective, and attractive maps and other graphics for various geographical purposes, especially term papers, thesis, and public presentations. Lectures, discussion, and laboratory. Offered: On
GEOG 317 Cartography
Design and preparation, by hand and computer, of informative, effective, and attractive maps and other graphics for various geographical purposes, especially term papers, thesis, and public presentations. Lectures, discussion, and laboratory. Offered: On demand.

GEOG 319 Descriptive And Synoptic Meteorology
Synoptic weather observations, air mass analysis, analysis of frontal systems, weather disturbances, preparation of weather charts and diagrams used in synoptic meteorology and forecasting. Prerequisites: ENV-SCI 110R or GEOLOGY 215 Offered: On demand

GEOG 325 Cultural Perspectives on the Environment
This course explores the history of conservation practices in American agriculture from the 1700s through the present. Additionally, the course examines the past and present legal implications of environmental statutes for minority farmers from a social and environmental justice perspective. This course is also offered as Environmental Studies 325.

GEOG 329 World Political Geography
An analysis of the influence of geographic factors (both physical and human) on the economic and political relationships of the nations of the world. Emphasis will be placed on population size and political viability of states, boundaries and frontiers as limits of national space, problems related to the spatial integration of states, and the independence and interdependence of states within the larger world political system. Offered: On demand

GEOG 332 Cultural Geography
A study of the distribution and interpretation of cultural patterns throughout the world. Examined are material and non-material elements of culture such as settlement, land use, technology and belief systems. The geographic origins and diffusion of culture traits are emphasized. On demand.

GEOG 333 Geographic Elements Of Urban Planning
Analysis of the changing form and structure of urban places from a planning viewpoint. The focus will be on land-use trends on both the intraurban and interurban levels. Covered will be such topics as planning for urban transportation, new towns, land-use planning, urban renewal, and environmental planning. Offered: On demand

GEOG 334 Gender and the Environment
This course provides a survey of different ways women relate to nature. The objectives of the course are: to understand historical relationships between women and nature in the western world, to understand different theoretical approaches to studying women and nature, to explore the geography of women's activism on behalf of the environment, and to understand how women's health is linked to the environment. Cross listed with ENV-STDY 334. Offered: Fall

GEOG 335 Introduction To Waste Management
Overview of issues in waste management. Nature and classification of waste. Municipal solid waste: disposal methods, design,
construction and maintenance of sanitary landfills. Nature and sources of hazardous waste, storage, transportation, treatment and disposal of hazardous waste. Types and sources of nuclear waste; disposal of high level and low level nuclear wastes. Sources, nature, handling and disposal of biologic waste. Pollution prevention, recycling and resource conservation. Prerequisites: ENV-SCI 110R, GEOLOGY 150, GEOLOGY 220 or instructor's permission. Offered: On demand.

GEOG 335 Introduction To Waste Management

GEOG 336 Principles Of Soil Science
Study of genesis, evolution, distribution and classification of soils. Analysis of soil-forming materials and processes. Three hours lecture, discussion and laboratory a week. Prerequisites: ENV-SCI 110R; GEOLOGY 220 required; Offered: On demand
Restrictions: college chemistry recommended.

GEOG 340 Geography of the United States and Canada
A survey of the physical and human geography of the United States and Canada. The approach is strongly historical emphasizing interconnections, shared colonial backgrounds, and broader international contexts in the Americas and around the globe. This course is aimed at non-specialists. Offered: On demand.

GEOG 340 Geography of the United States and Canada
A survey of the physical and human geography of the United States and Canada. The approach is strongly historical emphasizing interconnections, shared colonial backgrounds, and broader international contexts in the Americas and around the globe. This course is aimed at non-specialists. Offered: On demand.

GEOG 340 Geography of the United States and Canada
A survey of the physical and human geography of the United States and Canada. The approach is strongly historical emphasizing interconnections, shared colonial backgrounds, and broader international contexts in the Americas and around the globe. This course is aimed at non-specialists. Offered: On demand.

GEOG 341 Geography Of South America
A study of the physical and human geography of South America, with an emphasis on cultural processes and the historical record. Contemporary issues such as economic development, trade, urbanization, and geopolitical conflicts are discussed. Offered: On demand

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A study of the physical and human geography of South America, with an emphasis on cultural processes and the historical record. Contemporary issues such as economic development, trade, urbanization, and geopolitical conflicts are discussed. Offered: On demand

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A study of the physical and human geography of South America, with an emphasis on cultural processes and the historical record. Contemporary issues such as economic development, trade, urbanization, and geopolitical conflicts are discussed. Offered: On demand

GEOG 342 Geography of Mexico, Central America and the Caribbean
A study of the physical and human geography of Middle America, with an emphasis on cultural processes and the historical record. Contemporary issues such as economic development, trade, urbanization, and geopolitical conflicts are discussed. Offered: On demand

GEOG 342 Geography of Mexico, Central America and the Caribbean
A study of the physical and human geography of Middle America, with an emphasis on cultural processes and the historical record. Contemporary issues such as economic development, trade, urbanization, and geopolitical conflicts are discussed. Offered: On demand

GEOG 342 Geography of Mexico, Central America and the Caribbean
A study of the physical and human geography of Middle America, with an emphasis on cultural processes and the historical record. Contemporary issues such as economic development, trade, urbanization, and geopolitical conflicts are discussed. Offered: On demand

GEOG 342 Geography of Mexico, Central America and the Caribbean
A study of the physical and human geography of Middle America, with an emphasis on cultural processes and the historical record. Contemporary issues such as economic development, trade, urbanization, and geopolitical conflicts are discussed. Offered: On demand
GEOG 350 Geography Of Europe
A survey of the physical and human geography of the regions and nations of Europe. The approach is strongly historical, emphasizing international interconnections and broad global contexts. The course is aimed at non-specialists. Offered: On demand.

GEOG 350 Geography Of Europe
A survey of the physical and human geography of the regions and nations of Europe. The approach is strongly historical, emphasizing international interconnections and broad global contexts. The course is aimed at non-specialists. Offered: On demand.

GEOG 350 Geography Of Europe
A survey of the physical and human geography of the regions and nations of Europe. The approach is strongly historical, emphasizing international interconnections and broad global contexts. The course is aimed at non-specialists. Offered: On demand.

GEOG 351 Regional Geography Of The Middle East
A study of human imprint upon the land through settlement patterns, institutions of land organization, and types of economy. Strategies for the economic development of various regions in the Middle East are discussed. Offered: On demand

GEOG 352 Geography Of Southeast Asia
A study of human imprint on the land through settlement patterns, institutions of land organization, and types of economy. Strategies for the economic development of various regions in Southeast Asia are discussed. Offered: On demand

GEOG 352 Geography Of Southeast Asia
A study of human imprint on the land through settlement patterns, institutions of land organization, and types of economy. Strategies for the economic development of various regions in Southeast Asia are discussed. Offered: On demand

GEOG 355 Geography Of Africa
A study of human imprint on the land through settlement patterns, institutions of land organization, and types of economy. Strategies for the economic development of various regions in Africa are discussed. Offered: On demand

GEOG 355 Geography Of Africa
A study of human imprint on the land through settlement patterns, institutions of land organization, and types of economy. Strategies for the economic development of various regions in Africa are discussed. Offered: On demand

GEOG 360 Principles Of Biogeography
This course is an introduction to biogeography that explores the patterns of plant and animal distributions from both ecological and historical perspectives. We examine past geologic and climatic conditions, as well as interactions between organisms and their environment to explain modern distributions of flora and fauna. Human interactions with plants and animals have increasingly profound consequences on distributions of flora and fauna from destruction to management. We explore the increasing importance of issues and strategies in conservation. The laboratory portion of the course builds on core ecological concepts and provides experiences of field observation, data collecting and data analysis. Prerequisite: ENV-SCI 110R or permission of instructor. Offered: On demand.

GEOG 360 Principles Of Biogeography
This course is an introduction to biogeography that explores the patterns of plant and animal distributions from both ecological and historical perspectives. We examine past geologic and climatic conditions, as well as interactions between organisms and their environment to explain modern distributions of flora and fauna. Human interactions with plants and animals have increasingly profound consequences on distributions of flora and fauna from destruction to management. We explore the increasing importance of issues and strategies in conservation. The laboratory portion of the course builds on core ecological concepts and provides experiences of field observation, data collecting and data analysis. Prerequisite: ENV-SCI 110R or permission of instructor. Offered: On demand.

GEOG 360 Principles Of Biogeography
This course is an introduction to biogeography that explores the patterns of plant and animal distributions from both ecological and historical perspectives. We examine past geologic and climatic conditions, as well as interactions between organisms and their environment to explain modern distributions of flora and fauna. Human interactions with plants and animals have increasingly profound consequences on distributions of flora and fauna from destruction to management. We explore the increasing importance of issues and strategies in conservation. The laboratory portion of the course builds on core ecological concepts and provides experiences of field observation, data collecting and data analysis. Prerequisite: ENV-SCI 110R or permission of instructor. Offered: On demand.
GEOG 398 Field Trip
Three-day field trip in March or April (at student's expense) for department majors. An opportunity to observe and study physical and cultural features and collect materials. Brief descriptive report of trip required. Prerequisite: 6-9 hours of upper level geography. Yearly.

GEOG 401 Advanced Geographic Information Science
This course is designed for the students knowledgeable in the fundamentals of geographic information systems, who wish to gain expertise in advanced topics and applications in geographic information systems, remote sensing, and related environmental informatics. Classes are organized to encourage active learning. Students are encouraged and guided to develop their research projects by integrating related techniques of geographic information science. Prerequisite: GEOG 203 Offered: On demand

GEOG 402 Environmental Remote Sensing And Digital Image Analysis
This course will provide students with innovative techniques for landscape-level environmental analysis, geographic and geological studies, earth science research, and environmental resources management using remotely sensed data including satellite images. Students will be taught basic remote sensing concepts and technical skills, including energy radiative transfer processes in remote sensing, sensors and resolutions, computer-based image processing and classification, and remote sensing/GIS integration. Prerequisite: GEOG 203 (formerly GEOG 401) or permission of instructor. Offered: On Demand

GEOG 403WI History and Philosophy of Geoscience
A survey of geoscientific thought since antiquity. The substance of geography, geology, and environmental studies will be sought primarily in scholarly treatise and formal analytical systems including cartography, but the course also addresses geoscientific principles emerging from the history of environment, government, law, economy, religion, literature, and material culture. Readings, lectures, discussions, research, writing. Also offered as Geography 503wi. Offered: on demand

GEOG 404 Biogeography And Landscape Ecology
Principles and applications of biogeography and landscape ecology, emphasizing distribution of major ecosystems and related plants and animal species on earth, biodiversity, landscape patterns and processes, and physical, biological, and human interactions. The course explores ecosystem and landscape analyses using advanced GIS, remote sensing, and spatial modeling methods for real problem solving in environmental and biological research, ecosystem conservation, and urban planning and studies. Prerequisites: GEOG 203, GEOG 402 / GEOG 5502 or permission of instructor. Offered: On demand

GEOG 405 Biogeography And Landscape Ecology
Principles and applications of biogeography and landscape ecology, emphasizing distribution of major ecosystems and related plants and animal species on earth, biodiversity, landscape patterns and processes, and physical, biological, and human interactions. The course explores ecosystem and landscape analyses using advanced GIS, remote sensing, and spatial modeling methods for real problem solving in environmental and biological research, ecosystem conservation, and urban planning and studies. Prerequisites: GEOG 203, GEOG 402 / GEOG 5502 or permission of instructor. Offered: On demand

GEOG 406 Global Environmental Change
This course will examine the current rates of global environmental change and potential causes in the context of Earth's natural climate variability. The course will follow a seminar format. Students will read and discuss published articles on current and emerging theories of forcing mechanisms in the Earth's systems.
GEOG 406 Global Environmental Change
This course will examine the current rates of global environmental change and potential causes in the context of Earth's natural climate variability. The course will follow a seminar format. Students will read and discuss published articles on current and emerging theories of forcing mechanisms in the Earth's systems.

GEOG 410 Landscape, Language, Literature, And Law
An examination of the geographic underpinnings and implications of languages, literatures, and jurisprudence. The course explores languages' historic rootedness in the interactions between human beings and their surroundings; the varying geographic expressiveness and discrimination of languages; the effect and significance of literary evocations of landscapes; and the cultural and environmental geographic content of the language of law. Readings, lectures, discussions, writing. Prerequisite: Permission of the instructor. Offered: On demand. Also offered as GEOG 5510.

GEOG 410 Landscape, Language, Literature, And Law
An examination of the geographic underpinnings and implications of languages, literatures, and jurisprudence. The course explores languages' historic rootedness in the interactions between human beings and their surroundings; the varying geographic expressiveness and discrimination of languages; the effect and significance of literary evocations of landscapes; and the cultural and environmental geographic content of the language of law. Readings, lectures, discussions, writing. Prerequisite: Permission of the instructor. Offered: On demand. Also offered as GEOG 5510.

GEOG 412 Global Tourism
This course is a regional survey of world tourism. Topics include the uniqueness of place, the marketing of tourist destinations, and the cultural, economic, and environmental impacts on host societies. This course is cross-listed with Environmental Studies 412. Prerequisites: Geog 105, or Geog 200, or Geog 202, or permission of instructor.

GEOG 415 History And Philosophy Of Cartography
An examination of the techniques, assumptions, psychology, and cultural implications of mapping from the Stone Age to the age of satellites and the computerized Geographic Information System. Readings, lectures, discussions, writing. Offered: On demand. Also offered as GEOG 5515.

GEOG 415 History And Philosophy Of Cartography
An examination of the techniques, assumptions, psychology, and cultural implications of mapping from the Stone Age to the age of satellites and the computerized Geographic Information System. Readings, lectures, discussions, writing. Offered: On demand. Also offered as GEOG 5515.

GEOG 417 Special Topics
Individual research and study of a selected topic in geography, meteorology or earth science. Prerequisites: Approval of instructor. On demand.

GEOG 426 Paleoecology: Microfossils And Climate Change
Paleoecology will focus on questions addressing past environments and past climates based on the ecology of microfossils. Micro-organisms are very sensitive to a wide variety of environmental conditions including temperature, precipitation, hydrology, water chemistry, salinity, habitat, and pollution. The fossil remains of these organisms are used as proxy indicators for reconstructing past environmental conditions, climate change, vegetation dynamics, and human impacts. Students will have the opportunity to process microfossils and make interpretations based on analysis data. Prerequisite: Permission of Instructor Offered: Every other Fall semester

GEOG 430 Energy Resources
This course covers the distribution, origin, and utilization of all types of energy. Topics include exploration, production, storage, transportation and conservation of carbon-based fuels, hydrologic, nuclear energy, and alternate energy sources such as solar, wind, geothermal, and hydrogen. Prerequisite: ENV-SCI 110R or GEOLOGY 220. Offered: Fall.

GEOG 430 Energy Resources
This course covers the distribution, origin, and utilization of all types of energy. Topics include exploration, production, storage, transportation and conservation of carbon-based fuels, hydrologic, nuclear energy, and alternate energy sources such as solar, wind, geothermal, and hydrogen. Prerequisite: ENV-SCI 110R or GEOLOGY 220. Offered: Fall.

GEOG 435 Geoarchaeology
This course examines geomorphological and archaeological methods used in reconstructing sites, settlement patterns, and paleoenvironments. Explores dating methods, soils, and stratigraphy as tools for studying landscape evolution and human occupation. Prerequisites: GEOG 314 or GEOLOGY 314, or permission of instructor. Offered: On demand
**GEOG 435** Geoarchaeology  
This course examines geomorphological and archaeological methods used in reconstructing sites, settlement patterns, and paleoenvironments. Explores dating methods, soils, and stratigraphy as tools for studying landscape evolution and human occupation. Prerequisites: GEOG 314 or GEOLOGY 314, or permission of instructor. Offered: On demand

**GEOG 437** Population Geography  
This course analyzes human populations: how they grow, how their compositions change, and how and why people migrate from one place to another. Students will study basic demographic processes—mortality, fertility, and migration—and underline theory and techniques. Students will also examine relationships between population growth and population planning, immigration, urbanization, and the environment. Offered: On demand.

**GEOG 437** Population Geography  
This course analyzes human populations: how they grow, how their compositions change, and how and why people migrate from one place to another. Students will study basic demographic processes—mortality, fertility, and migration—and underline theory and techniques. Students will also examine relationships between population growth and population planning, immigration, urbanization, and the environment. Offered: On demand.

**GEOG 442** Quaternary Environments  
This course reviews earth climatic history and focuses on major mechanisms for global and regional climate change. Methods of paleoclimatic reconstruction are examined, including analysis of proxy data and climate modeling. Application of these methods toward prediction of future climate change is also explored. Also offered as Geog 5542. Prerequisite(s): GEOG 314 or GEOLOGY 314, and GEOG 215, or permission of instructor. Offered: On demand.

**GEOG 442** Quaternary Environments  
This course reviews earth climatic history and focuses on major mechanisms for global and regional climate change. Methods of paleoclimatic reconstruction are examined, including analysis of proxy data and climate modeling. Application of these methods toward prediction of future climate change is also explored. Also offered as Geog 5542. Prerequisite(s): GEOG 314 or GEOLOGY 314, and GEOG 215, or permission of instructor. Offered: On demand.

**GEOG 444** Spatial Data Analysis  
Quantitative techniques and applications of spatial data analysis. The course will cover basic geospatial analysis techniques including hypothesis testing, kriging, variogram analysis, multivariate analysis and reliability analysis. Emphasis is on practical applications rather than theories. Intended for Geology, Geography, Environmental Studies, and relevant fields. Three hours lecture and computer lab per week. Prerequisites: Elementary statistics or permission of instructor. Offered: On demand

**GEOG 444** Spatial Data Analysis  
Quantitative techniques and applications of spatial data analysis. The course will cover basic geospatial analysis techniques including hypothesis testing, kriging, variogram analysis, multivariate analysis and reliability analysis. Emphasis is on practical applications rather than theories. Intended for Geology, Geography, Environmental Studies, and relevant fields. Three hours lecture and computer lab per week. Prerequisites: Elementary statistics or permission of instructor. Offered: On demand

**GEOG 448** Satellite Climatology  
Use of satellite observations to study the climate system. Discussions consider the development of satellite climatology, sensors, platforms and methodologies used to estimate climate variables from radiance measurements. Aspects of climate that are emphasized include cloud climatologies, cloud systems, atmospheric moisture, radiation budget, and land-surface conditions. Three hours lecture and one hour lab per week. Prerequisites: Geog 215 or Geog 219, or permission if instructor. Offered: Every other Spring.

**GEOG 448** Satellite Climatology  
Use of satellite observations to study the climate system. Discussions consider the development of satellite climatology, sensors, platforms and methodologies used to estimate climate variables from radiance measurements. Aspects of climate that are emphasized include cloud climatologies, cloud systems, atmospheric moisture, radiation budget, and land-surface conditions. Three hours lecture and one hour lab per week. Prerequisites: Geog 215 or Geog 219, or permission if instructor. Offered: Every other Spring.

**GEOG 449** Global Water and Sustainability  
This course examines the physical characteristics of water and its role in Earth systems. The challenges facing societies in as era of rapidly changing climate are explored. Cross-listed with Environmental Science 446.

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This course examines the physical characteristics of water and its role in Earth systems. The challenges facing societies in as era
of rapidly changing climate are explored. Cross-listed with Environmental Science 446.

**GEOG 450 Gis Fundamentals For Research Applications**
This course will address the needs of upper level undergraduate and graduate students who desire to learn and apply fundamental Geographic Information Systems concepts and techniques for their research projects. This course will draw on the content of the Introductory GIS course offered by the department but will also be flexible such that the individual needs or interest of students can be met through guided reading and/or tailored laboratory sessions. The Department of Geosciences GIS computer laboratory, with a variety of GIS and Remote Sensing software, will be available for this course. Prerequisite: Permission by instructor
Offered: Winter
Restrictions: Only for upper level undergraduate and graduate students

**GEOG 457 North American Prehistory**
This class offers instruction in the archaeological survey of prehistoric North America from the Arctic to northern Mexico. The course outlines cultural developments within this region form the peopling of the Americas near the end of the last Ice Age to the arrival of Europeans over 10,000 years later. The diversification of Native American societies across this time span is examined in relation to social and environmental challenges, including the transformation of hunter-gatherer groups into chiefdoms and complex agricultural societies. Cross-listed with Anthropology 384.

**GEOG 460 Transportation Geography**
Relation between transportation and spatial organization, selected analytical models dealing with traffic demand, network configuration, and allocation of transport facilities; application to specific problem areas including commuting. Seminar with discussions of briefs and term paper. Offered: On demand

**GEOG 489 Tutoring In Geography**
Geography majors in their senior year may enroll for 1-3 hours tutoring for credit. This will entail working as a tutor, under the direction of the faculty, to students in the 100 to 200-level courses in the department who either have inadequate background preparation in environment studies and geography or are identified by the instructor as needing tutorial help. Tutoring will be on a credit/non-credit basis. Prerequisite: Permission of instructor
Offered: On demand

**GEOG 496 Geography Internship**
Students obtain directed practical experience working with non-profits, governments, or private enterprises. Duties will vary based on contractual agreement between the student, host organization, and the professor. Students should have junior standing or higher, and the instructor's permission. Prerequisite: Permission of the instructor
Offered: Summer, Fall, or Winter as available

**GEOG 499WI Geography Seminar**
Students critique geographic research and prepare a paper and an oral presentation on an approved topic. Prerequisite: Senior standing and successful completion of the WEPT
Offered: Winter
Geology (GEOLOGY)

GEOLOGY 120 Energy Science
An introductory foundation course on energy in all its guises, the physical laws and factors which control it and the availability of energy for human use. Includes consideration of resources, reserves, conversion efficiencies, conservation, and other relevant factors. Conventional sources and nonconventional alternatives such as solar, wind, water, geothermal, biomass and fusion will be addressed. Lecture and discussions. No prerequisites. Offered: On demand

GEOLOGY 1YE Geology Elective Lecture
Transfer Credit

GEOLOGY 220 General Geology
Origin and composition of the primary earth materials; agents of erosion, transportation, sedimentation and metamorphism; modes of occurrence of common minerals and analysis of the common crustal structures. Field trips. Three hours lecture and discussion. Semester offered: Fall and Winter

GEOLOGY 250L General Geology Laboratory
Laboratory and field investigations of principles of the geology designed to complement the topics covered in GEOLOGY 220 through the use of inquiry-based investigations in the laboratory and field. Prerequisite: Co-requisite or Prerequisite GEOLOGY 220. Semester offered: Fall and Winter

GEOLOGY 230 Historical Geology
An interpretation of the biological and physical history of the earth. Three hours lecture, discussion and two hours laboratory a week. Field trips. Prerequisites: GEOLOGY 220 or permission of instructor Offered: On demand

GEOLOGY 250L Field Methods In Earth And Environmental Science
A field-based course covering basic methods used by earth scientists for environmental, geographic, and geologic investigations. Students will collect field data at off-campus sites, conduct periodic monitoring, and analyze samples using departmental and personal instrumentation. Students will work on collaborative projects and will present their results. Class will meet weekly for four hours in the field. Prerequisite: GEOLOGY 101 and GEOLOGY 101L or ENV-SCI 111 and ENV-SCI 111L or GEOLOGY 220 and GEOLOGY 220L or ENV-SCI 110R and ENV-SCI 110L. Offered: Fall

GEOLOGY 250L Field Methods In Earth And Environmental Science
A field-based course covering basic methods used by earth scientists for environmental, geographic, and geologic investigations. Students will collect field data at off-campus sites, conduct periodic monitoring, and analyze samples using departmental and personal instrumentation. Students will work on collaborative projects and will present their results. Class will meet weekly for four hours in the field. Prerequisite: GEOLOGY 101 and GEOLOGY 101L or ENV-SCI 111 and ENV-SCI 111L or GEOLOGY 220 and GEOLOGY 220L or ENV-SCI 110R and ENV-SCI 110L. Offered: Fall

GEOLOGY 251 Field Methods In Earth And Environmental Science: Off-Campus
This course will provide students with an introductory, inquiry-based learning experience that focuses on the application of field methods for understanding surface and subsurface earth processes and environmental issues. Students will collect field data at off-campus sites, conduct periodic monitoring, and analyze samples using departmental Instrumentation. Students will work on collaborative projects and will present their results. Class will meet at an off-campus location during break (added cost) plus have four on campus meetings. Prerequisites: GEOLOGY 220 and GEOLOGY 220L or ENV-SCI 110R and ENV-SCI 110L

GEOLOGY 251 Field Methods In Earth and Environmental Science: Off-Campus
This course will provide students with an introductory, inquiry-based learning experience that focuses on the application of field methods for understanding surface and subsurface earth processes and environmental issues. Students will collect field data at off-campus sites, conduct periodic monitoring, and analyze samples using departmental Instrumentation. Students will work on collaborative projects and will present their results. Class will meet at an off campus location during break (added cost) plus have four on campus meetings. Prerequisites: GEOLOGY 220 and GEOLOGY 220L or ENV-SCI 110R and ENV-SCI 110L

GEOLOGY 302 Environmental Geology
An introduction to the role and scope of geological processes in the light of contemporary urban society. Lecture and discussion periods include topics such as air and water pollution, earth movements, waste disposal, mineral, energy and water resources, construction engineering, and effects caused by human activities. Three hours lecture, discussion per week. Semester offered:
GEOLOGY 302 Environmental Geology
An introduction to the role and scope of geological processes in the light of contemporary urban society. Lecture and discussion periods include topics such as air and water pollution, earth movements, waste disposal, mineral, energy and water resources, construction engineering, and effects caused by human activities. Three hours lecture, discussion per week. Semester offered: Fall and Winter

GEOLOGY 312 Mineralogy
Introduction to crystallography, mineral chemistry and the systematic classification and identification of minerals. Prerequisites: GEOLOGY 220 and CHEM 212R. Three hour lecture and discussion with two hours laboratory a week. Fall.

GEOLOGY 313 Evolution And The Geologic Record
An introduction to the history of life by studying the geologic record. Students will examine major features of the fossil record including: invertebrates, vertebrates, and plants. Students explore what the fossil record tells us about geologic time, evolution, past environments and distributions of organisms. Three hours of lecture and two hours of laboratory a week. The course will include field trips to collect and interpret fossils and paleoenvironments. Prerequisites: None Offered: Winter

GEOLOGY 314 Principles Of Geomorphology
Explores the processes that shape the earth's surface. Focuses on the development and description of fluvial, glacial, eolian, and coastal landforms. Studies the influence of tectonic and climatic factors. Three hours lecture and two hours lab per week. Field trip. Prerequisite(s): ENV-SCI 110R; or GEOLOGY 220; Offered: On demand.

GEOLOGY 315 Sedimentology/Stratigraphy
Study of sedimentary rocks with special emphasis given to hand specimen identification based on mineral composition and textural features. Characteristics of sediments, transportation and environment of sediment deposition. Principles of stratigraphy, facies analysis and interpretation. Measurement and description of stratified rocks. Three hours lecture and two hours lab per week. Field trips. Prerequisite: GEOLOGY 220 Offered: Fall

GEOLOGY 326CZ Cc:Archaeology Of Ancient Disasters
Remarkable human achievements are revealed by archaeological research, but the human past was frequently shaped as well by disasters of natural and human origin. Drawing on case studies that include data from the geosciences, archaeological excavations, and historical sources, this class examines how earth processes, the biosphere, and human cultural behavior were all sources of catastrophe. We begin with the geological context of disaster, including earthquakes, volcanic eruptions, climate change, and soil depletion. Next, we examine how ancient societies responded to disease, an ever present threat from the biological environment. Finally, we look at how ancient human groups were changed by stresses of cultural origin, including overpopulation, depletion of vital resources, and warfare. The study of ancient disasters not only gives us a wider understanding of human history, it may offer lessons for coping with future catastrophes. Also cross listed as CLASSICS 300CZ. Offered: Winter Semester
GEOLOGY 326CZ Cc: Archaeology Of Ancient Disasters
Remarkable human achievements are revealed by archaeological research, but the human past was frequently shaped as well by disasters of natural and human origin. Drawing on case studies that include data from the geosciences, archaeological excavations, and historical sources, this class examines how earth processes, the biosphere, and human cultural behavior were all sources of catastrophe. We begin with the geological context of disaster, including earthquakes, volcanic eruptions, climate change, and soil depletion. Next, we examine how ancient societies responded to disease, an ever present threat from the biological environment. Finally, we look at how ancient human groups were changed by stresses of cultural origin, including overpopulation, depletion of vital resources, and warfare. The study of ancient disasters not only gives us a wider understanding of human history, it may offer lessons for coping with future catastrophes. Also cross listed as CLASSICS 300CZ. Offered: Winter Semester

GEOLOGY 335 Introduction To Waste Management

GEOLOGY 342 Igneous And Metamorphic Petrology
Introduction to the principles governing the classification, occurrence and origins of igneous and metamorphic rocks. Prerequisite: GEOLOGY 312. Three hours lecture and discussion with two hours laboratory a week. Winter.

GEOLOGY 342R Electrical Methods In Near Surface Geophysics
Fundamental theory and near-surface applications of the 'electrical' geophysical methods; (1) electrical resistivity, (2) electromagnetics, (3) ground penetrating radar, and (4) induced polarization. Emphasis will be placed on the use of these methods in environmental and engineering investigations, addressing such issues as water resources, contaminant transport, geotechnical properties and archaeological protection. Course will include a field component illustrating application of selected technique to a local environmental problem. Prerequisites: Permission of Instructor Offered: On demand

GEOLOGY 350 Earth Structures And Tectonics
This course is designed to teach students the basic techniques and approaches for problem solving in structural geology. The course will cover the fundamentals of crustal deformation and discuss joints, faulted and folded rocks in their plate tectonic context. Two hours of lectures and three hours of laboratory a week. Course will include local field trips and one weekend field trip. Prerequisite: GEOLOGY 220, PHYSICS 210 or PHYSICS 240. Offered: Winter

GEOLOGY 370R Hydrogeology
Geology and hydrologic factors controlling the occurrence, movement, quality, recovery and development of water supply and distribution. Problems relating to urbanization of flood plains. Prerequisites: Permission of instructor

GEOLOGY 398 Geology Midcontinent Field Trip
A study of a selected area of the midcontinent U.S. with emphasis on locations to be visited during a three-day field trip (at the student's expense). An opportunity to observe and study physical features and collect materials. Several scheduled one-hour meetings in addition to field trip. Lectures, discussion and reading assignments provide a background to place the area covered by the field trip into the overall geologic framework of the Midcontinent U.S. Descriptive report or written examination. Limited enrollment. Prerequisite: Junior or senior level. Fall.

GEOLOGY 404 Fluid Transport in Geologic Media
This course examines the processes governing the fate and transport of solutes and contaminants in the subsurface environment. This course will provide computational modeling skills, laboratory tests, and case studies of subsurface transport. Three hours lecture, discussion and laboratory a week. Prerequisites: Hydrogeology or permission of instructor.

GEOLOGY 404 Fluid Transport in Geologic Media
This course examines the processes governing the fate and transport of solutes and contaminants in the subsurface environment. This course will provide computational modeling skills, laboratory tests, and case studies of subsurface transport. Three hours
lecture, discussion and laboratory a week. Prerequisites: Hydrpgeology or permission of instructor.

**GEOLOGY 408 Archaeological Field Survey Methods**
This class offers instruction in the basic skills required to conduct field surveys in archaeology and other geosciences disciplines. In the classroom, students learn about the development of archaeology as a scientific discipline and how to recognize some of the basic field data sought by archaeologists. Students learn about mapping and land navigation techniques. The field phase of instruction includes visits to archaeological sites in the region.

**GEOLOGY 409 Field School in Archaeology**
This class offers students an opportunity to attend a field school in archaeology. Students will be taught how to: design archaeological research, set-up excavation, keep a wide range of excavation records, make maps and drawings, take photographs related to excavation problems, identify and receive a broad spectrum of artifact and faunal remains, collect samples for specialized analysis and use a wide range of excavation tools. This course will also introduce students to recording and analyzing excavated materials in the archaeological laboratory. Prerequisite: Consent of the instructor. Restrictions: Class size limited to 20 students.

**GEOLOGY 411 Mineral Deposits**
Distribution, origin and environmental implications of extractable resources including non-metallic deposits, ores, and selected energy resources. Prerequisite: Instructor's permission. Offered: On Demand

**GEOLOGY 412 Geology And Hazardous Waste Management**
Nature sources and characterization of hazardous waste; collection, transportation and disposal of hazardous wastes. Fundamentals of toxicology and risk assessment. Application of geologic principles and methods in the assessments and remediation of abandoned hazardous waste sites and contaminated aquifers. Review of selected case histories. Experts from government and private organizations will be invited to deliver guest lectures. An out-of-town field trip to a hazardous waste site is required. Prerequisites: GEOLOGY 325, GEOLOGY 342, and GEOLOGY 350 or permission of the instructor.

**GEOLOGY 417 Special Topics**
Individual research and study of a selected topic in geology or earth science. Prerequisites: Approval of instructor and departmental sanction. On demand.

**GEOLOGY 417A Special Topics: Common Rocks, Minerals & Fossils Of The K C Area**

**GEOLOGY 417C Special Topics**

**GEOLOGY 425 Engineering Geology**
Review of engineering properties of rock and soils. Evaluation of geologic materials for civil engineering construction projects. Techniques of engineering geologic investigations; special problems in urban areas. Data evaluation, analyses, and preparation of engineering geologic reports. Application of geologic factors in design and construction of dams, tunnels, power plants, highways and waste disposal facilities. Review of engineering geologic case histories. A field trip is required. Prerequisite: GEOLOGY
GEOLoGY 434 Hazardous Waste Operations Management
Overview of federal regulations dealing with hazardous waste management, toxicology, hazard communication, site management, air monitoring, operating procedures, and health and safety. The course includes hands-on training on spill control, equipment use and emergency response. Practical training involves physical stress and participants must be in good physical health. This course satisfies OSHA's 40 hour training requirement for hazardous waste personnel. Prerequisite: Permission of instructor Offered: On demand

GEOLOGY 435 Hazardous Waste Operation Management
Review of federal regulations governing hazardous waste management, operations procedures, and health and safety issues. Hands-on training on spill control, equipment use, and emergency response will be included. The course satisfies OSHA's 40-hour training requirement for hazardous waste personnel. Practical training involves physical stress and participants must be in good health. Prerequisites: GEOLOGY 302, GEOLOGY / GEOG 335, GEOLOGY 412 or permission of instructor Restrictions: Must be in good health to withstand physical stress during training Offered: Winter

GEOLOGY 441 Environmental Geophysics
Fundamental theory and near-surface applications of the geophysical methods; (1) seismic refraction, (2) seismic reflection, (3) gravity, and (4) magnetics. Emphasis will be placed on the use of these methods in environmental and engineering investigations, addressing such issues as water resources, contaminant transport, geotechnical properties and archaeological protection. Course will include a field component illustrating application of selected techniques to local environmental problem. Prerequisites: Permission of instructor Offered: On demand

GEOLOGY 442 Optical Crystallography
Theory and practical application of polarized light microscopy in the identification and characterization of crystalline and non-crystalline materials. Special emphasis is given to use of refractive index oils and thin sections. Two hours of lecture and discussion, one 2-hour lab per week. Prerequisite: GEOLOGY 312, Mineralogy or consent of instructor Offered: Winter bi-annually

GEOLOGY 442 Optical Crystallography
Theory and practical application of polarized light microscopy in the identification and characterization of crystalline and non-crystalline materials. Special emphasis is given to use of refractive index oils and thin sections. Two hours of lecture and discussion, one 2-hour lab per week. Prerequisite: GEOLOGY 312, Mineralogy or consent of instructor Offered: Winter bi-annually

GEOLOGY 446 Petroleum Geology
Study of the origin, concentration, exploration for and recovery of petroleum. Prerequisite: Geology 220. On demand.

GEOLOGY 451 Geology's Role In Land Use Planning
Examination of principles and techniques of geology as related to land use planning. Lecture and discussion periods devoted to topics such as physical features of soils in an urban setting, geophysical surveying, photo interpretation, engineering geology, mineral and water resources, and multiple-tier planning. Lecture, discussion and laboratory. Prerequisite: GEOLOGY 220 or ENV-SCI 110R Offered: On demand.

GEOLOGY 460 Introduction To Geochemistry
Basic principles governing the origin, distribution and migration of the elements and the geochemical cycles operating in the earth's atmosphere, hydrosphere and lithosphere. Prerequisite: GEOLOGY 312, CHEM 212. On demand.

GEOLOGY 460 Introduction To Geochemistry
Basic principles governing the origin, distribution and migration of the elements and the geochemical cycles operating in the earth's atmosphere, hydrosphere and lithosphere. Prerequisite: GEOLOGY 312, CHEM 212. On demand.

GEOLOGY 470 Geological Development Of North America
A detailed inquiry into the stratigraphic framework of North America with special emphasis on orogenic and epiregional events reflected in Phanerozoic rock associations. Through lectures, discussion and outside readings, the student is afforded a working knowledge of the continent's major tectonic provinces and their evolution. Prerequisite: Geology 325, 342, 350. On demand.

GEOLOGY 470 Geological Development Of North America
A detailed inquiry into the stratigraphic framework of North America with special emphasis on orogenic and epiregional events reflected in Phanerozoic rock associations. Through lectures, discussion and outside readings, the student is afforded a working knowledge of the continent's major tectonic provinces and their evolution. Prerequisite: Geology 325, 342, 350. On demand.
GEOLOGY 471 Tectonics
A detailed inquiry into plate tectonics and the geophysical and geological data that define the motion of lithospheric plates. Global examples of divergent, convergent, and transform plate boundaries will be studied through lectures, discussions, problem sets, and term papers. Prerequisite: GEOLOGY 325 and GEOLOGY 350. Offered: On demand.

GEOLOGY 472 Earthquake Geology
A detailed inquiry into the study of present and past earthquakes as they are preserved in the seismological, geophysical, and geologic record. Global examples of earthquakes will be studied through lectures, discussions, problem sets, term papers, field trips and field projects.

GEOLOGY 490 Geology Field Camp
Study and practical involvement in the methods of geological mapping. The six-week course is conducted during the summer, partially in a field camp away from the Kansas City area. Students pay their own travel expenses to and from the field. Participation in the course involves individual mapping in the field area and field reports. Prerequisite: Permission of instructor. Summer.

GEOLOGY 496 Geology Internship
Students gain directed practical experience working with non-profits, governments, or private enterprises. Duties will vary based on contractual agreement between the student, host organization, and the professor. Students should have junior standing or higher, or the instructor's permission. Prerequisite: Permission of Instructor. Offered: Summer, Fall or Winter as available.

GERMAN (GERMAN)
GERMAN 110 Elementary German I
The goals of this course are an ability to speak and to understand simple (spoken) German as well as to read and write simple prose.

GERMAN 111 Introduction To Business German I
The goals of this course are the development of essential language skills in order to communicate effectively in basic situations.

GERMAN 120 Elementary German II
Continuation of German 110. Prerequisite(s): German 110 or equivalent.

GERMAN 121 Introduction To Business German II
German 121 (5 Credits): Continuation of German 111. Every Semester. Prerequisites: GERMAN 110 or GERMAN 111 or equivalent.

GERMAN 211 Second-Year German I
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: GERMAN 120. Fall.

GERMAN 221 Second-Year German II
Continuation of GERMAN 211. Winter semester.
GERMAN 221 Second-Year German II
Continuation of GERMAN 211. Winter semester.

GERMAN 250 Commercial German
Business practices and correspondence in the German language; special vocabulary of business, trade, banking and administration. Refinement of grammatical and stylistic skills. Subjects treated include price inquiries, quotations, offers, orders, complaints, administrative, banking and diplomatic correspondence. Prerequisite: GERMAN 221 or equivalent.

GERMAN 280 Special Intermediate German Topics I
Instruction of German on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

GERMAN 290 Special Intermediate German Topics II
Continuation of GERMAN 280. May not be repeated for credit. As needed.

GERMAN 303CZ CC: The Other Europe
This cluster course addresses a crucial, if often overlooked arena of history and culture: East-Central Europe. Open to all undergraduates, this course will explore the challenges of geopolitics, modernization, Western influences, multiethnic societies, and collective memory. Cross-listed with Hist 400cz.

GERMAN 301 Introduction To Literary Studies
An introduction to the study of the different genres of German literature and techniques of criticism. Readings include representative works of major authors from various periods. Strongly recommended for all majors. To be taken before or concurrently with other literature courses. Odd numbered years, Spring. Taught in German.

GERMAN 305 Current Events In Germany
This course focuses on contemporary issues in Germany such as politics, the economy, foreign affairs, culture, science, education, etc. Various television news programs, news magazines, and newspapers will be the primary sources of information in this course. Prerequisites: GERMAN 221 or equivalent.

GERMAN 306 Aspects Of Contemporary German Culture (Conducted In German)
The goal of the course is to familiarize the student with various aspects of contemporary culture in the German-speaking countries (Germany, Switzerland, Austria). The class will be structured around lectures, guest lectures, audiovisual presentations and discussions, emphasizing crosscultural comparisons.

GERMAN 307 From The Middle Ages To The Baroque
The goal of this course is to introduce students to the history of German literature from the Middle Ages to the Baroque, emphasizing the historical and social context and the development of various genres. Prerequisite: GERMAN 221 or equivalent. Offered: On Demand.

GERMAN 308 From The Enlightenment Through The 19Th Century
The goal of this course is to introduce students to the history of German literature from the Enlightenment through the 19th century, emphasizing the historical and social context and the development of various genres. Prerequisite: GERMAN 221 or equivalent. Offered: On demand.

GERMAN 310 Classical Period Of German Literature
Readings in the late 18th and 19th centuries with emphasis on Goethe and Schiller.

GERMAN 313 CC: Intro to German Studies
This cluster course explores major themes in German culture, history, and philosophy from the medieval period to the present. Concentrating on primary sources in English translation also introduces students to the methodologies of German Studies. German language ability not required, but class can count toward German major for students who do the written work in German. Cross-listed as History 400GS. Prerequisites: English 110 or History 206.

GERMAN 315 Intermediate Conversation And Composition I
Practice in speaking and writing German; emphasis on idiomatic usage. Required for major. Prerequisite: GERMAN 221 or
equivalent. Fall semester.

**GERMAN 315** Intermediate Conversation And Composition I  
Practice in speaking and writing German; emphasis on idiomatic usage. Required for major. Prerequisite: GERMAN 221 or equivalent. Fall semester.

**GERMAN 325** Intermediate Conversation And Composition II  
Continuation of GERMAN 315. Required for major. Prerequisite: German 315. Winter semester.

**GERMAN 325** Intermediate Conversation And Composition II  
Continuation of GERMAN 315. Required for major. Prerequisite: German 315. Winter semester.

**GERMAN 335** Commercial German  
The class covers business practices and correspondence in the German language; special vocabulary of business, economics, banking, and their contextualization in the European Union. It will also include refinement of grammatical and stylistic skills. Prerequisite: German 221 or equivalent.

**GERMAN 340** Society And Literature In 20Th-Century Germany  
Conducted in English with English translations. Literary currents and figures in 20th-century Germany against their social and political background, from the turn of the century to the postwar period. Reading and discussion of major works by such authors as Thomas Mann, Hesse, Kafka, Rilke, Brecht, Boll, Grass, Hochhuth and Weiss. Open to students of all disciplines. (Not for major credit in German).

**GERMAN 341** Survey Of German Film 1920-1980  
Introduces students to the important contributions of German films to the development of movies as a unique literary art form. The class will cover important terms and concepts in film theory, the specifically German context of film, and important themes and periods in German film history. Taught in English with subtitled films.

**GERMAN 342** Contemporary German Film 1980-  
This course will introduce students to the important role film has played in the public discourse about German society immediately prior to reunification in the 1980's and during the turbulent social adjustments in unified Germany after 1990. Lectures and readings in the first week will cover important terms and concepts in film theory as well as provide background for the specific German context of film history. The class will treat film in the 1980's in terms of continuations of and liberations from the New German Cinema of the 1970's in West Germany, and in the context of state censorship and sponsorship of film in East Germany. We will approach movies from the 1990s and 2000s by accessing their depiction of historical and contemporary Germany throught the lens of reunification, and we will examine issues of German identity especially as contextualized by reunification and multiculturalism. The course will be taught in English with subtitled films. Prerequisite: GERMAN 315 for German majors/minors

**GERMAN 345** The Antifascist Tradition In Germany  
This course examines the political and cultural roots of German fascism. It then discusses varieties of resistance to fascism as exemplified in works of fiction, drama, poetry and auto-biography, as well as in music and the visual arts.

**GERMAN 361** Ingolstadt Practicum and Internship  
Students will choose a service learning assignment from available internships during 4-week stay in the German city of Ingolstadt. Progress checks and support provided for in GERMAN 360, Ingolstadt Internship. Students will also turn in a portfolio and/or journal and final report about their activities in German to the program director. Prerequisite: GERMAN 221 or equivalent. Restrictions: Must be taken with GERMAN 360. Only 2 students are guaranteed participation per summer. Offered: Summer semester.

**GERMAN 360** Ingolstadt Study Abroad  
Academic support and inquiry for GERMAN 361, Ingolstadt Internship. Provides cultural and language training as well as extended research into specific field of service learning internship during 4-week stay in the German city of Ingolstadt. Prerequisite: GERMAN 221 or equivalent. Restrictions: Must be taken with GERMAN 361. Only 2 students are guaranteed participation per summer. Offered: Summer semester.
GERMAN 361 Ingolstadt Practicum and Internship
Students will choose a service learning assignment from available internships during 4-week stay in the German city of Ingolstadt. Progress checks and support provided for in GERMAN 360, Ingolstadt Study Abroad. Students will also turn in a portfolio and/or journal and final report about their activities in German to the program director. Prerequisite: GERMAN 221 or equivalent. Restrictions: Must be taken with GERMAN 360. Only 2 students per summer are guaranteed participation. Offered: Summer semester.

GERMAN 400 Rainer Maria Rilke
The course examines the works of the Austrian poet Rainer Maria Rilke, emphasizing close readings of texts in their historical, cultural, biographical and psychological contexts. It examines Rilke both as a representative of his epoch, and as the poet who revolutionized German poetic language.

GERMAN 401 Bertolt Brecht
Covers major works by Brecht in their social and historical context. May focus on a specific genre or survey parts or all of Brecht's career. Discussions and readings in German. Prerequisite: GERMAN 315 or instructor's permission. Offered: On Demand

GERMAN 410 Music in German Culture
This course examines the role of music in German national self-definition from late 18th century to the present. The political and ideological role of music will be examined from 1789 to National Socialism, the GDR and reunification, including the gendering of music as feminine in Romanticism, and modernism. Music as it relates to the public and private, as well as collective and individual experiences will also be explored. Different genres and media will be discussed, from opera, art song, and cabaret to ballads and film; literary works thematizing music will be read. Prerequisites: German 315 or instructor's permission

GERMAN 410A Music in German Culture
This course examines the role of music in German national self-definition from late 18th century to the present. The political and ideological role of music will be examined from 1789 to National Socialism, the GDR and reunification, including the gendering of music as feminine in Romanticism, and modernism. Music as it relates to the public and private, as well as collective and individual experiences will also be explored. Different genres and media will be discussed, from opera, art song, and cabaret to ballads and film; literary works thematizing music will be read. All works available in English: no German required.

GERMAN 411 Romanticism
Main currents and authors from the Romantic school, 1780-1820.

GERMAN 412 The German Novelle
An examination of representative novellen of the 19th and 20th centuries. Special emphasis on the study of form.

GERMAN 414 German Lyric Poetry
Lyric poetry from its beginnings to the present. Emphasis on 19th and 20th centuries.

GERMAN 415 Advanced Conversation And Composition I
Practice in speaking and writing German, with attention to the elements of style. Continued in GERMAN 425. First semester required of all majors and second semester recommended. Both semesters required of prospective high school teachers. Either or both semesters may be repeated with the consent of the instructor and the German section head. No more than six hours credit may be applied towards a degree. Prerequisite: GERMAN 325.

GERMAN 420 German Enlightenment Drama
This course covers plays, dramatic theories and theater history in the German-speaking countries 1730-1780. Emphasis will be placed on the theater as a bourgeois instrument of public discourse. Prerequisites: German 315 or equivalent.

GERMAN 421 19Th-Century Drama
Kleist through Hauptmann.

GERMAN 422 Contemporary Drama
This course will provide students with a survey of the most important dramatic movements of the 20th century. It will proceed chronologically through Expressionism, the Brechtian theatre of alienation, documentary theater and post-modernist theater. Prerequisite: GERMAN 221

GERMAN 425 Advanced Conversation And Composition II
Continuation of GERMAN 415. See GERMAN 415. Required for teacher certification in German. Prerequisite: GERMAN 415.
GERMAN 426 20Th-Century German Literature
Selected readings from Neo-Romanticism to the present. On demand.

GERMAN 453 Women's Voices In Germany And Austria
The course focuses on the role of women in German and Austrian society from the Roman era to the present, primarily through the examination of literary texts by women. Prerequisite: GERMAN 221

GERMAN 480 Special Topics
Each time this course is offered a particular author, genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Offered: On demand.

GERMAN 480B Special Topics

GERMAN 490 Special Readings
Intensive readings in a field or literary figure to be selected by the student in consultation with the instructor. Available by permission only to advanced students of German; available only when student cannot take regularly scheduled courses. Prerequisite: 3.0 GPA. On demand.

GERMAN 499 Senior Seminar (Capstone)
Required for major. Covers seminal works of German literature in their historical and cultural context. Course content varies, but will include such elements as geography, politics, folklore, history of the language, architecture, art and music. To be taken during final Winter Semester of residence. Prerequisite: 21 hours beyond first year.

GREEK 110 Elementary Ancient Greek I
The goal of this course is an ability to read classical Greek. The student will be introduced to the fundamentals of grammar and the basic vocabulary of the language and will do exercises in the reading and writing of sentences. Continuous passages of Greek will be presented by the end of the semester.

GREEK 110 Elementary Ancient Greek I
The goal of this course is an ability to read classical Greek. The student will be introduced to the fundamentals of grammar and the basic vocabulary of the language and will do exercises in the reading and writing of sentences. Continuous passages of Greek will be presented by the end of the semester.

GREEK 120 Elementary Ancient Greek II
A continuation of the study of the grammar and vocabulary of classical Greek, with an increasing emphasis on developing skills in translation. By the middle of the semester students will be introduced to selections from Plato, Herodotus or Homer. Prerequisite(s) Greek 110 or consent of instructor

GREEK 120 Elementary Ancient Greek II
A continuation of the study of the grammar and vocabulary of classical Greek, with an increasing emphasis on developing skills in translation. By the middle of the semester students will be introduced to selections from Plato, Herodotus or Homer. Prerequisite(s) Greek 110 or consent of instructor

GREEK 211 Intermediate Ancient Greek I
Instruction of Greek on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Greek 120 or consent of instructor
GREEK 221 Intermediate Ancient Greek II
Continuation of GREEK 280. May not be repeated for credit. As needed. Prerequisite: Greek 211 or consent of instructor

GREEK 280 Special Intermediate Greek Topics I
Instruction of Greek on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

GREEK 290 Special Intermediate Greek Topics II
Continuation of GREEK 280. May not be repeated for credit. As needed.

GREEK 301 Herodotus
Selected readings in Ancient Greek from Herodotus' Histories. Prerequisite: Greek 211 or consent of the instructor.

GREEK 302 Homer
Selected readings in Ancient Greek from Homer's Iliad or Odyssey. Prerequisite: Greek 211 or consent of the instructor.

GREEK 310 Selected Readings in Ancient Greek and Rhetoric
Selected readings in Ancient Greek from works by Plato, Aristotle, or the Attic Orators. Prerequisite: Greek 211 or Consent of the instructor.

GREEK 311 Drama and Lyric Poetry
Selected readings in Ancient Greek from plays by Aeschylus, Sophocles, Euripides, or the Lyric Poets. Prerequisite: Greek 211 or consent of the instructor.

GREEK 312 Greek Narrative Prose
Selected readings in Ancient Greek from Herodotus, Thucydides, Xenophon, Lucian, etc. Prerequisite: Greek 211 or consent of the instructor.

GREEK 490 Special Readings In Greek
Intensive readings in period or genre or literary figure to be selected by the student in consultation with the instructor. Available only to advanced Greek students. On demand.

History (HISTORY)
HISTORY 101 American History To 1877
This course covers the evolution of American civilization from its colonial beginnings to Reconstruction. It is not a prerequisite for 102. Fall, winter, summer.

HISTORY 102 American History Since 1877
This covers American history from the end of Reconstruction to the present. HISTORY 101 is not a prerequisite for this course. Fall, winter, summer.

HISTORY 201 Western Civilization To 1600
This course surveys the political, social and cultural history of Europe from ancient times to 1600. Beginning with a brief description of the riverine civilizations of the ancient Near East, the course then examines the political and cultural evolution of classical Greco-Roman civilization, the medieval world, the rise of the national state, and the essential characteristics of the eras of the Renaissance and Reformation. Fall, Summer, Winter.

HISTORY 202 Western Civilization Since 1600
This course surveys the political, economic, social, intellectual, and cultural history of Europe from about 1600 to the present, through these major developments in those centuries: the origins of the modern sovereign state (absolutist and constitutional), the English revolutions; the European Enlightenment, the French Revolution, and Napoleonic Europe; Romanticism and Scientism in culture and thought, the Industrial Revolution and urban society, and nationalism and imperialism; the two world wars, the Russian Revolution, dictators and totalitarian states, and the current postwar world and culture. Fall, Summer, Winter.

HISTORY 206 World History To 1600
This course is a comparative history of the civilizations of the world from prehistory to the seventeenth century. From a global perspective, this course explores themes relevant to social, political, and cultural history, such as science and technology, women and social classes, religion, politics, and education. Images of art and examples of primary sources enrich the lectures and readings.
HISTORY 208 World Civilization Since 1600
This course surveys the social, economic, political and institutional history of the world from the 17th century to the present. It is designed to foster deeper understanding of the continuity between past and present and of the interdependence among nations in contemporary times.

HISTORY 208 World Civilization Since 1600
This course surveys the social, economic, political and institutional history of the world from the 17th century to the present. It is designed to foster deeper understanding of the continuity between past and present and of the interdependence among nations in contemporary times.

HISTORY 250 Introduction To American Studies
An introduction to the American Experience through the study of selected themes and issues that stress both continuity and change in America. Topics include community, family, ethnic groups, racial conflict, science and religion, the arts, sports, mass media, technological innovation and immigration and migration. The interdisciplinary nature of American Culture will be stressed. Prerequisite: None. Offered: Alternate Years.

HISTORY 300B Special Studies In History

HISTORY 300B Special Studies In History

HISTORY 300BB Special Studies in History

HISTORY 300BL Special Studies In History

HISTORY 300C Special Studies

HISTORY 300CF Cluster Course: Race in American Film
This course examines representations of race and ethnicity in American film from the silent era onward in mainstream and countercultural traditions. It explores how social, political, and economic conditions contribute to constructions of race and ethnicity. This course is offered as a cluster course with Comm-St 405CD and English 300CQ.

HISTORY 300CO CC:Women In the Ancient World
This focuses on the history, representation, literature, social lives, and political roles ow women in ancient civilization including Egypt, Mesopotamia, the Biblical World, Greece, and Rome. It integrates methodologies from history, art history and archaeology, literary studies, and women's studies.

HISTORY 300D Special Studies

HISTORY 300F Special Studies

HISTORY 300G Special Studies

HISTORY 300H Special Studies

HISTORY 300J Special Studies

HISTORY 300K Special Studies History

HISTORY 300L Special Studies
HISTORY 300MC Special Studies

HISTORY 300MM Special Studies

HISTORY 300P Special Studies

HISTORY 300R Special Studies

HISTORY 300RA Special Studies

HISTORY 300RB Special Studies

HISTORY 300RH Special Studies

HISTORY 300SS Special Studies

HISTORY 300W Special Studies History

HISTORY 300WY Decade of Dissent: The 1960s
The social movements and conflicts that developed during the 1960s continue to define American culture. Questions of racial and gender equity, a greater willingness to challenge authority, concerns about the environment, and a new openness about issues of sexuality all developed during the sixties and remain as arenas of debate today. This course will examine the origins, contexts, and major themes of these social and cultural movements.

HISTORY 300WY Decade of Dissent: The 1960s
The social movements and conflicts that developed during the 1960s continue to define American culture. Questions of racial and gender equity, a greater willingness to challenge authority, concerns about the environment, and a new openness about issues of sexuality all developed during the sixties and remain as arenas of debate today. This course will examine the origins, contexts, and major themes of these social and cultural movements.

HISTORY 301WI Historiography And Method
This basic course is required of all history majors at the beginning of the junior year. Content includes: 1) what history is; 2) its value and usefulness; 3) the diversity of our fields, approaches, and methods; and 4) the techniques of preparing and writing history papers. Texts and reading are approved by the Department. (i.e.: Turabian for style). Although the emphasis is general instead of particular, the instructor will be assisted by other historians representing their main special interest areas. Prerequisite: Successful completion of the WEPT (effective FS93). Offered: Fall and winter.

HISTORY 302 America,1000-1763: The Formative Era
Early American history encompasses the formative era of many institutions and attitudes which still persist in technetronic, post-modern America. A study of how these patterns and policies emerged will enlighten us as to our current ways society seeks to adapt to change. Semester offered: On demand

HISTORY 303 America, 1763-1783: The Revolutionary Heritage
The American Revolution created American history by creating a new nation. What the American Revolution was depends to a large extent upon what Americans think they are or ought to be. The goals of this course, therefore, are twofold: (1) to probe the nature, causes and consequences of the American Revolution; (2) to assess the intentions and behavior of both the Framers in 1763-1783 and of the inheritors of modern America. Also offered as HISTORY 503. Semester offered: On demand

HISTORY 303 America, 1763-1783: The Revolutionary Heritage
The American Revolution created American history by creating a new nation. What the American Revolution was depends to a
large extent upon what Americans think they are or ought to be. The goals of this course, therefore, are twofold: (1) to probe the nature, causes and consequences of the American Revolution; (2) to assess the intentions and behavior of both the Framers in 1763-1783 and of the inheritors of modern America. Also offered as HISTORY 503. Semester offered: On demand

HISTORY 304 America, 1783-1828: The National Experience
The two major threads of this course are the formation and implementation of the Constitution and the cultural adolescence of the new nation. Topics considered include the political bequest of the framers' generation, the growing pains of territorial expansion and industrialism, the paradoxical development of regionalism and nationalism. Also offered as HISTORY 504.

HISTORY 305 America, 1828-1852: The Jacksonian Period
An analysis of the political, social, economic, and intellectual factors in American society, 1828-1852. The period featured the presidency of Andrew Jackson, the shaping of a new democratic ideology, the culmination of manifest destiny, the quickening of the antislavery impulse, the Mexican War, the growing sectional split, and the Compromise of 1850. Also offered as HISTORY 505.

HISTORY 306 America, 1850-1877: Civil War And Reconstruction
A survey of the political, social and economic factors leading to the dissolution of the federal union is followed by a consideration of the major features and developments of the war period. This, in turn, leads to an analysis of the major factors and relationships involved in the ""reconstruction"" of the federal union. The course covers the years 1850 to 1877. Also offered as HISTORY 506.

HISTORY 306A History of Christianity to the Middle Ages
This course examines the historical and theological development of Christianity from its origins to the High Middle Ages. The main themes follow the mechanisms and conditions shaping Christianity's expansion into a major social, institutional, and intellectual force with a focus on patterns of crisis and reform. This course is based on the study of primary sources (both texts and objects) and modern scholarship. Cross-listed as Religious Studies 306.

HISTORY 307 America 1877-1917: Development Of Industrial America
This course deals with the reactions of different groups of Americans to the industrialization and urbanization of the United States from 1877 to 1917, using concepts associated with modernization upon the behavior of the business community, farmers, laborers, immigrants, professionals and major ethnocultural groupings. Other contemporary proposals for the adjustment to industrialism are explained as well as the programs which each group eventually used to adjust to modern society. Also offered as HISTORY 507.

HISTORY 307A History of Christianity from the Middles Ages to Present
This course examines the historical and theological development of Christianity from the High Middle Ages to the present. The main themes follow the mechanisms and conditions shaping Christianity's expansion into a major social, institutional, and intellectual force with a focus on patterns of crisis and reform. This course is based on the study of primary sources (both texts and objects) and modern scholarship. Cross-listed as Religious Studies 307.

HISTORY 308A America: 1914-1945: The Era Of The World Wars
This course examines United States social, intellectual, economic, political and diplomatic history from the beginning of World War I to the end of World War II. Special emphasis is placed on the coexistence of realism and idealism in American foreign policy, the evolution of power shifts within the American federal system, and the causes and consequences of rapid urban growth and increased industrial sophistication. Students examine the material and social texture of life during the two world wars, the so-called ""roaring 20s"", and the Great Depression through contemporary art forms (especially novels) and historical monographs.

HISTORY 308B America: 1945-Present: Our Times
This course examines United States social, intellectual, economic, political, and diplomatic history from the end of World War II to the present. Given our focus on the recent past, special emphasis is placed upon the importance of the historical perspective to an understanding of contemporary affairs. Major themes include: America's rise to the world power, the development of the Keynesian welfare state, the concentration of corporate wealth and power, the persistence of poverty amidst plenty, and the changing status of American minority groups.

HISTORY 330PW The Works Of Western Man
In the period 1750-1987, the nations bordering the Atlantic Ocean, largely relying on their technological advances, became world powers. This course, relying on analysis of films plus required readings, will survey the energy sources employed, the tools developed, and the regimes of the workplace which led to this dominance. Grades will be assigned to three types of exercises: frequent quizzes, a mini-project in historical research and a book critique of a piece of fiction. Prerequisite: Successful completion of the WEPT (effective FS93).
HISTORY 330PW The Works Of Western Man
In the period 1750-1987, the nations bordering the Atlantic Ocean, largely relying on their technological advances, became world powers. This course, relying on analysis of films plus required readings, will survey the energy sources employed, the tools developed, and the regimes of the workplace which led to this dominance. Grades will be assigned to three types of exercises: frequent quizzes, a mini-project in historical research and a book critique of a piece of fiction. Prerequisite: Successful completion of the WEPT (effective F93).

HISTORY 331P America In The Machine Age
The United States has experienced repeated waves of technological advancements. This course will largely focus on industrialization in the 19th century as well as consumer society of our own era. How Americans produced goods and what were the dynamics of the market place are two central themes. Required readings will be complemented by films and presentations from resource persons throughout Kansas City. A research project and three tests are required.

HISTORY 332P The City: Past And Present
This course treats the built environment, especially the urban infrastructure. Both systems and structures of the cityscape are examined from a historical perspective, with three metropolises (Rome, Paris, New York) and Kansas City serving as case studies. the technical areas include shelter, public buildings, transportation, water supply, power, waste management, communications, and the like. Projects are included. Offered: Every 2 years.

HISTORY 333 Introduction to African American Studies
This course provides an introduction to the contexts, theories, and methodologies that undergird African American studies. In addition to substantial time spent covering particular research skills and resources, students will also be introduced to African American culture and the issues related to African American studies from several perspectives: history, literature, sociology, communication studies, and the like. Influences and perspectives from Africa, the Caribbean and South America will also be covered. The course will thus provide a broad background in African American culture and history, an introduction to the methodologies of several disciplines, and discussion of particular contemporary and historical issues such as slavery, segregation and integration, the Civil Rights Movement, Pan-Africansism, Afrocentrism, and current political debates.

HISTORY 335 Latin American History Through the Movies
This course explores the national cinemas and film industries of various regions in Latin America. Students analyze films both as artistic endeavors and as sociological documents that provide a window into the socio-historical context of the nation in question. This course will also examine the history of Latin American cinema from the beginnings of sound to the present.

HISTORY 334R Women In Modern America
This course traces the part women have played in the processes of industrialization and urbanization. It looks at the general demographic, economic and social changes affecting women of all classes, as well as the role of middle-class women in the progressive, prohibition and suffrage movements. The course will also study the impact of the two world wars and the Depression upon the roles of women. Also offered as HISTORY 554.

HISTORY 336 Rise Of The City In The U.S.
This course treats the background and major developments of the urbanization of the United States. Includes the American urban tradition, the scope of urbanization, colonial beginnings, urban rivalries, promotion, case studies of cities, the growth of urban services, the slum, problems of government, population trends, urban planning, and suburban growth. Consideration is also given to the methods and techniques of urban research and history of the development of this field. Also offered as HISTORY 556.

HISTORY 336R Rise Of The City In The U.S.
This course treats the background and major developments of the urbanization of the United States. Includes the American urban tradition, the scope of urbanization, colonial beginnings, urban rivalries, promotion, case studies of cities, the growth of urban services, the slum, problems of government, population trends, urban planning, and suburban growth. Consideration is also given to the methods and techniques of urban research and history of the development of this field. Also offered as HISTORY 556.

HISTORY 352 Latin American History Through the Movies
This course explores the national cinemas and film industries of various regions in Latin America. Students analyze films both as artistic endeavors and as sociological documents that provide a window into the socio-historical context of the nation in question. This course will also examine the history of Latin American cinema from the beginnings of sound to the present.

HISTORY 354R Women In Modern America
This course traces the part women have played in the processes of industrialization and urbanization. It looks at the general demographic, economic and social changes affecting women of all classes, as well as the role of middle-class women in the progressive, prohibition and suffrage movements. The course will also study the impact of the two world wars and the Depression upon the roles of women. Also offered as HISTORY 554.

HISTORY 355 Latin American History Through the Movies
This course explores the national cinemas and film industries of various regions in Latin America. Students analyze films both as artistic endeavors and as sociological documents that provide a window into the socio-historical context of the nation in question. This course will also examine the history of Latin American cinema from the beginnings of sound to the present.

HISTORY 356 Rise Of The City In The U.S.
This course treats the background and major developments of the urbanization of the United States. Includes the American urban tradition, the scope of urbanization, colonial beginnings, urban rivalries, promotion, case studies of cities, the growth of urban services, the slum, problems of government, population trends, urban planning, and suburban growth. Consideration is also given to the methods and techniques of urban research and history of the development of this field. Also offered as HISTORY 556.

HISTORY 356R Rise Of The City In The U.S.
This course treats the background and major developments of the urbanization of the United States. Includes the American urban tradition, the scope of urbanization, colonial beginnings, urban rivalries, promotion, case studies of cities, the growth of urban services, the slum, problems of government, population trends, urban planning, and suburban growth. Consideration is also given to the methods and techniques of urban research and history of the development of this field. Also offered as HISTORY 556.

HISTORY 356 Kansas City: History Of A Regional Metropolis
This course uses Kansas City as an urban laboratory to help students better understand the dynamics of the urbanization process in America. It features lectures and discussions on such subjects as early settlement patterns, the battle for the first bridge over the Missouri River, the development of an economy based on agricultural pursuits, the City Beautiful Movement, the social fabric, the Pendergast Machine, and the impact of World War II and after. The course fits Kansas City into the larger framework
of the American urban mosaic. Also offered as HISTORY 556R.

HISTORY 356R Kansas City: History Of A Regional Metropolis
This course uses Kansas City as an urban laboratory to help students better understand the dynamics of the urbanization process in America. It features lectures and discussions on such subjects as early settlement patterns, the battle for the first bridge over the Missouri River, the development of an economy based on agricultural pursuits, the City Beautiful Movement, the social fabric, the Pendergast Machine, and the impact of World War II and after. The course fits Kansas City into the larger framework of the American urban mosaic. Also offered as HISTORY 556R.

HISTORY 357 The American West
This course deals with the relationship of the American West to the social and economic development of the United States. Major emphasis is placed on the role of the trans-Mississippi West in the economic growth of the national economy. Related cultural and political events are evaluated in the terms of the many Western frontiers. Emphasis will be placed on the Turner thesis, the Indian heritage, frontier violence, and the cow town experience. Also offered as HISTORY 557.

HISTORY 358 History Of The American South I
A study of the political, intellectual, cultural, economic, and social development of the American South up to and including the Civil War. Special topics discussed will be the plantation system, slavery, abolition, secession, the Confederacy, and the interaction of the region with the nation. On demand.* Also offered as History 558.

HISTORY 360R Constitutional History Of The United States
The general question covered is: how does American society govern itself? Topics include the fusion of Anglo traditions and American environment, creation of the American republic under the Constitution of 1787, the struggle for sovereignty during the Marshall-Taney era, and the Supreme Court's utilization of the 14th Amendment to adapt the Constitution to modernity. Also offered as HISTORY 560R.

HISTORY 361 American Foreign Relations
Following a rapid survey of major principles and actions in American diplomatic affairs before 1900, this course analyzes developing principles, problems, methods and factors in American foreign relations since that date. Attention is given to the interrelationships of domestic factors and foreign relations with an attempt to discover principal influences that have shaped this area of American development. Also offered as HISTORY 561R.

HISTORY 364R Nature, Culture And The Human Experience
This course is an introduction to various interpretations of nature with a focus on American culture and society. We will consider ideas about nature from diverse perspectives including history, literature, philosophy and religion-in order to understand how human perceptions and uses shape relations with the natural world. Specific themes include such diverse topics as the aesthetic tradition, environmental thought, and environmental justice.

HISTORY 365A American Environmental History
This course examines the changing relationships between human beings and the natural world through time. The main argument of this course will be that American History looks very different through an environmental lens. Nature is an important category of historical analysis-as well as a topic worthy of historical study itself-and this course will examine themes as diverse as Native American ecology to the modern environment crusade.

HISTORY 365A American Environmental History
This course examines the changing relationships between human beings and the natural world through time. The main argument of this course will be that American History looks very different through an environmental lens. Nature is an important category of historical analysis-as well as a topic worthy of historical study itself-and this course will examine themes as diverse as Native American ecology to the modern environment crusade.

HISTORY 366RR American Labor History
This course examines the history of work and the working class in the U.S. from 1750 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers' relationships with other social groups, and the role played by gender, race, and ethnicity in uniting or dividing the working class. Also offered as HISTORY 566RR.

HISTORY 368 Children and Youth in American History
This course which brings a gendered perspective to the history of childhood and the study of youth-focuses on the changing construction of girlhood and boyhood from precontact to the present. We will examine the variety of forces that have scripted the lives of children and adolescents and explore the active role they have played in shaping their lives and American culture. We will make use of the scholarly literature on childhood and youth as well as examine such primary sources as childbearing
HISTORY 369 Women And Work In Early America
Drawing upon more than two decades of outstanding scholarship that places women and gender at the center of investigation and interpretation, this course focuses on the ways in which gender, race, region and class have shaped the historical experiences of women in north America. We will trace the lives of American women from precontact to 1865 through an examination of a wide variety of social, cultural, economic, and political forces and factors including work and leisure, family life, political activities and organizations, and education. Semester offered: On demand

HISTORY 370 Introduction To Material Culture
This course will consider the ways in which material culture contributes to our understanding of history. Scholars have increasingly recognized the significance of "the things they left behind," particularly as they provide insights to the lives of those who did not leave extensive written records. Students will consider all aspects of material culture, drawing largely on examples from American history: architecture, domestic utensils and furnishings, clothing, tools, and good agricultural practices. The courses will emphasize the process of handicraft technology as well as the product, and will consider the impact of modernization upon both process and product. Also offered as HISTORY 570.

HISTORY 391 Archival Methods
This combined discussion and research course will examine the research potential of primary-source materials in the custody of archival depositories and the methodology employed to utilize effectively these resources. An analysis of archival method, specifically in the areas of arrangement, description and preservation, will be emphasized during the discussion portion of the course. Most of the course will be devoted to independent research in various collections of the Regional Archives of the Kansas City Federal Records Center. The course will meet at such places as the Federal Records Center, 2306 Bannister Road, or the Truman Library for both the discussion and research segments. Also offered as HISTORY 591. Summer.

HISTORY 392A Archival Internship
Students work directly with professional archivists and other personnel at the Kansas City Federal Records Center, the Truman Library, Jackson County Historical Society, and similar facilities in the area. Emphasis will be given to areas of arrangement, description and preservation of archival materials. Each student must make individual arrangements through the department. Also offered as HISTORY 592. Prerequisites: None Offered: Fall, Winter, Summer Restriction: Approval of Department Chair

HISTORY 392B Public History Internship
Students work directly with public history and editorial personnel at the Kansas City Museum, the Kansas City Pitch Weekly, the Truman Library, and similar facilities in the area. Depending on the institutional affiliation, emphasis will be given to museum operations and displays, editing, fund-raising, historical research and writing. Each student must make individual arrangements through the department. Also offered as HISTORY 592B. Prerequisites: approval of the department chair.

HISTORY 393 Museum Studies
This course is designed to acquaint students with specific careers in museums and historical agencies; to introduce students to the wide range of operating issues facing those working in the museum profession on a day-to-day basis; and to familiarize students with the organizations, reference works and resources available to develop the skills and training required for those who choose to make this their profession. Also offered as HISTORY 593. Offered: On demand.

HISTORY 394 African American History Before 1877
This course is a survey of the African American experience from Pre-Columbian exploration through reconstruction. The course focuses on the trans-Atlantic slave trade, slavery in the colonies as well as resistance and abolition movements. Prerequisite: None.

HISTORY 395 African American History Since 1877
This course is a survey of African Americans in the United States from 1877 to the present. The course explores the post-
reconstruction era, civil rights and black nationalistic movements; the concepts of racism, desegregation/integration and separation. Contemporary issues facing a multiracial and pluralistic society are also addressed. Prerequisite: None.

**HISTORY 400** Special Studies
Courses on subjects which are not a part of the regular department offering. The courses result from one or more of the following: (1) The expressed desire of students; (2) the broadened or refocused scholarship of a member of the history faculty; (3) the temporary presence of a scholar whose specialization is not reflected in the department's regular offerings; (4) the conclusion by the department that the course meets a community need; (5) the effort of the history faculty to provide an interdisciplinary approach to an era or topic. The course is experimental in the sense that it is a one-time offering with the potential of repetition or modification--depending upon student, faculty and community response. Also offered as HISTORY 500R.

**HISTORY 400B** Special Studies

**HISTORY 400C** Special Studies

**HISTORY 400CC** Special Studies

**HISTORY 400CF** Cluster Course: Courts And Culture In The High Middle Ages
This course offers an interdisciplinary approach to the study of the High Middle Ages. In addition to the regularly scheduled meetings of this self-contained history class, there will be common sessions with students and faculty of English 400CF to look in dept at four royal courts from the 11th, 12th, and 13th centuries. We will focus on the courts of William the Conqueror, Henry II and Eleanor of Aquitaine, Louis IX, and Frederick II Hohenstaufen. Semester offered: On demand

**HISTORY 400CL** Special Studies

**HISTORY 400CM** Nazi Occupied Europe & The Holocaust
With the collaboration of many other nations, Nazi Germany attempted a genocidal war to systematically colonize, relocate and annihilate entire social groups, most notably the Jews. Employing an intentionally cosmopolitan perspective, this interdisciplinary cluster-course will explore how ordinary Europeans behaved in these circumstances and the different ways that scholars have attempted to comprehend, analyze and represent those choices.

**HISTORY 400CP** American Social Film: Silver Screen And The American Dream
This course will combine American social history and American film history. Using Hollywood entertainment films, the course will look at Hollywood as an indicator of social, political, and economic conditions in the U.S. from the early 1900s to the late 1950s. The main topics are war and the threat of war, poverty and affluence, racial tensions, censorship, and political zealotry. A paper is required, and a social history textbook, a film history textbook, a play by Arthur Miller and a collection of articles constitute core readings. This course is offered as a cluster with AMER-ST 300CD, COMM-ST 402CD and ENGLISH 300CD.

**HISTORY 400CR** Cc:Roman Revolution:History&Culture From The Gracchi To Augustus
In this course, the period of Roman history from the revolution initiated by the Gracchi to the demise of the Republic and the establishment of the Principate under Augustus will be discussed. Political, social and cultural developments will be traced which culminated in the violent death of the old system and a new government established by Augustus acceptable to the tradition-loving Romans. The events will be examined through the words of participants such as Terence, Cato, Polybius, Cicero, Caesar, Sallust, Catullus, Horace, Virgil, and Ovid. The disciplines of history and English will be treated together; therefore all sessions will be held in common. Grades will be based upon two examinations and assigned papers using both historical and English perspectives.
HISTORY 400CS Cluster Course: Clio & The Other Muses: Hist & Culture 5Th Cent Athens

HISTORY 400CW Cluster Course: Critical Issues in Women's & Gender Studies
What does it mean to grow up female in America? How does being female influence the body, the mind, identity? This course is an interdisciplinary exploration of the issues that have shaped the lives of American women throughout the life cycle and across the timeline. This course examines the role that culture and society have played in shaping and defining what it means to be an American girl and woman. May be cross-listed with CC ENG 300CW and/or SOC 300CW.

HISTORY 400CW Cluster Course: Critical Issues in Women's & Gender Studies
What does it mean to grow up female in America? How does being female influence the body, the mind, identity? This course is an interdisciplinary exploration of the issues that have shaped the lives of American women throughout the life cycle and across the timeline. This course examines the role that culture and society have played in shaping and defining what it means to be an American girl and woman. May be cross-listed with CC ENG 300CW and/or SOC 300CW.

HISTORY 400CY Cluster Course: The Ancient World And The Cinema
This course will explore the tradition of depicting the ancient Mediterranean world in film from the early silent era to the present. Topics to be covered include the ways that filmmakers respond to literacy and historical sources from the ancient world, interact with the artistic tradition of films about the ancient world, the relation of these films to other works by the same creative personnel (directors, actors, writers, producers, etc.), and the political and cultural contexts in which the films were released.

HISTORY 400CZ CC: The Other Europe
This cluster course addresses a crucial, if often overlooked arena of history and culture: East-Central Europe. Open to all undergraduates, this course will explore the challenges of geopolitics, modernization, Western influences, multiethnic societies, and collective memory. Cross-listed with German 300 CZ.

HISTORY 400D Special Studies

HISTORY 400F Special Studies

HISTORY 400G Special Studies

HISTORY 400GN Special Studies

HISTORY 400GS CC: Intro to German Studies
This cluster course explores major themes in German culture, history, and philosophy from the medieval period to the present. Concentrating on primary sources in English translation also introduces students to the methodologies of German Studies. German language ability not required, but class can count toward German major for students who do the written work in German. Cross-listed as German 313. Prerequisites: English 110 or History 206

HISTORY 400J Special Studies

HISTORY 400JCA Special Studies

HISTORY 400K Special Studies

HISTORY 400LA Special Studies
HISTORY 400M Special Studies

HISTORY 400SS Special Studies

HISTORY 400T Special Studies

HISTORY 400T Special Studies

HISTORY 400W Special Studies

HISTORY 400WI Special Studies

HISTORY 400Z Special Studies

HISTORY 400Z Special Studies

HISTORY 401A Religion In America
An in-depth examination of selected aspects of the history of religions in America from the colonial period to the present. Special emphasis will be given to methodological issues in the study of American religious history. Offered: On demand

HISTORY 406 Modern Latin America
This course studies social, political, economic and cultural trends in Latin America in the nineteenth and twentieth centuries. Discussion topics include nation building after independence with an emphasis on gender and race in the creation of national identities and new forms of social stratification; integration of national economies into the world economic system; the expansion of political participation and citizenship; immigration (national and transnational) and the tensions caused by the forces of modernization and tradition. Although the purpose of the course is to provide a general background for a large and diverse region (more than 20 countries), case studies from Argentina, Mexico and Brazil will illustrate the above-mentioned themes and will provide the basis for a comparative regional perspective.

HISTORY 411A Medieval Civilization I
This course covers the period between the decline of the Roman Empire in the West and the Investiture Controversy. Topics include the rise of Christianity and early church-state relationships; the barbarian invasions and the various Germanic kingdoms; the age of Charlemagne; monasticism and feudalism. There will also be special sessions on the civilizations of Islam and Byzantium. Also offered as HISTORY 511.

HISTORY 411B Medieval Civilization II
See HISTORY 400CF / HISTORY 500CF for course description. Also offered as HISTORY 512.

HISTORY 412A Medieval Women & Children
This course explores the roles of women in the social, economic, political and cultural environments of medieval and early modern Europe. We examine the lives of women in all areas of life, from the ordinary to the extraordinary, in urban and rural environments, from the centers of religious and political power to the margins of society. Focus will be on the world of work for urban and peasant women and on the social and legal institutions of marriage, kinship and the family. The course makes extensive use of primary sources by and about women during this period.

HISTORY 412B The Black Death And Late Medieval Society
This course examines all aspects of late medieval and early Renaissance society in Western Europe. The Black Death of 1348/1349 serves as the entry point into the historical study of the economy, demography, and culture during this transitional period. Offered: On demand

HISTORY 413 Renaissance
Beginning with a definition and exploration of the Renaissance as a period of gradual transition between the Middle Ages and the beginning of modern culture, this course concerns itself primarily with the rise and spread of Humanism; the revival of interest in antiquity; the growth of individualism; and the rise of secularism, as well as with the artistic achievements of the period. Also
HISTORY 414 Reformation
Beginning with a description and analysis of the social, intellectual and political aspects of the later Middle Ages, the course continues with an examination of those profound religious, social and political changes which mark the 16th century as the end of the Middle Ages and the beginning of the modern secular era. Also offered as HISTORY 514.

HISTORY 415B 17Th And 18Th Century European History
This course is designed to present the upper-division undergraduate with a firm grasp of the major intellectual, cultural, political and economic developments of 17th and 18th century Europe. It considers the bitter Thirty Years War in Central Europe, the rise of the Netherlands, the fall of Italy and Spain, the rise of constitutional and absolutist styles of government, the scientific revolution, the colonization by European of the Pacific and Indian Ocean Basins, Enlightenment political philosophy, the Agricultural Revolution, and the French Revolution. Also offered for graduate students as HISTORY 515.

HISTORY 416R The French Revolution And Napoleon
Narrative history concentrating on the explosive and colorful events and personalities in France, but also showing the European and Western context and impact of the revolution and Napoleon. Illustrated accounts cover such "great days" as the storming of the Bastille, the fall of Robespierre, and Napoleon's Coup of 18 Brumaire, and great battles. Main periods are: the origins of the revolution (economic, social, political, intellectual); revolution and reconstruction (1789-92); through terror to Thermidor (Jacobins and sans-culottes); Napoleon's wars and reconstruction (France and Europe). Cinema, slides and martial music periodically. Discussion of major authors and interpretations. Also offered as HISTORY 516.

HISTORY 417R Nations & Empires: 19th Century Europe
This upper-division course will survey significant trends in warfare, politics, economics, social relations and culture in 19th century Europe, paying particular attention to the rise of modern ideologies and identities, world hegemony, and the social technologies of dehumanization that foreshadowed the unprecedented inhumanities of the 20th century. Also offered for graduate students as HISTORY 517.

HISTORY 418R The Age of Extremes 20th Century History
This upper-division course traces the history of Europe in the 20th century. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the issues of modernity and post modernity, imperialism and decolonization, dehumanization and genocide as well as the role of ordinary people in these systems of mass destruction. Also offered for graduate students as HISTORY 518.

HISTORY 419R Contemporary Europe: 1930-2000
This upper-division course traces the history of Europe in the period of living memory. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the rise of globalization and the condition of postmodernity, decolonization and neocolonization, European unification and everyday life. Also offered for graduate students as HISTORY 519.

HISTORY 420CC World War I in Film: The World made Modern
This cluster course examines World War I and its legacy through the lenses of international history and film studies. It explores the origins and conduct of the ""Great War,"" as it was called at the time, as well as its transforming effects on the modern international relations and the ongoing process of globalization. It also examines how the war spurred the growth of an infant motion picture industry, and how movies produced during the decades that followed helped shaping popular memories of the conflict-reflecting and shaping cultural discourses regarding the myth or reality of modern civilizational progress; the ethics of modern weaponry; the individual's place in mass society; constructions of class, race, and gender; and the meaning of national identity in a globalizing world. The class will draw on selected history texts and an array of films and film clips. Cross listed with Comm-St 404CD

HISTORY 425R European Criminal Justice History, 500-1900
This course will survey European crime, criminal procedure, policing and punishment between 500 and 1900. Particular attention will be given to changing methods of proof (oaths, ordeals, juries); changing type of criminal activity (banditry, vagrancy, witchcraft, professional theft) and changing penal strategies (the stocks, breaking on the wheel, the workhouse, the prison, the
HISTORY 425R European Criminal Justice History, 500-1900
This course will survey European crime, criminal procedure, policing and punishment between 500 and 1900. Particular attention will be given to changing methods of proof (oaths, ordeals, juries); changing type of criminal activity (banditry, vagrancy, witchcraft, professional theft) and changing penal strategies (the stocks, breaking on the wheel, the workhouse, the prison, the penitentiary). English experiences are emphasized. Also offered as HISTORY 525R.

HISTORY 426R The Scientific Revolution, 1500-1700
An analysis of the intellectual and social currents which culminated in the Scientific Revolution. After presenting the Renaissance world view, the course will examine the influence of humanism, art, religion, and the voyages of discovery on science, as a prelude to understanding the achievements of Galileo, Harvey, Newton, and the scientific societies of the 17th century. Also offered as HISTORY 526R.

HISTORY 427R The Darwinian Revolution, 1650-1900
An inquiry into the intellectual background of Darwin's "Origin of Species." The course will examine 18th- and 19th-century attitudes toward time, species, change, race, the age of the earth, the nature of fossils, creation, and evolution, as background to understanding the achievement of Darwin and the reception of his work. Also offered as HISTORY 5527.

HISTORY 428A History Of The Body
This advanced course will explore the new field of the history of the body, with particular attention to sexuality and gender. Topics will include the history of sexualities, the body and society, body disciplines, medical practices and representations of illness, beauty and fashion, and the relationship between sexualities and nationalisms. Semester offered: On demand

HISTORY 428B Gender & Medicine: Patients & Practitioners From Antiquity To Present
This course explores, in a selective fashion, the role of women in Western medicine both as health care providers and patients. The subject of the history of medicine is too broad to be covered comprehensively in a semester, and so we will focusing on diseases or physical conditions which were believed to be limited to women--childbirth, certain mental health conditions, reproductive health, breast cancer-- as well as the increasing marginalization of women within the profession of health care providers to those branches concerned primarily with "women's problems." Offered: On demand

HISTORY 430R 'We Are The Dead': The Great War Experience Through its Artifacts
World War One was the "war to end all wars"; all previous wars were indeed eclipsed by its scale of destruction. And yet, it was a war that initiated a century of continual bloodshed and crimes against humanity. This course will explore the causes, nature and consequences of the Great War of 1914-18. It will be taught on different themes each Winter semester at the National World War One Memorial Museum at Liberty Memorial.

HISTORY 431R Medieval England, 1066 To 1485
Beginning with the Norman conquest of England in 1066, this course traces the history of Medieval England through the establishment of the Tudor dynasty. Covered will be such items as the rise of the Angevin Empire, the conflict between monarch & nobility, the evolution of Parliament, as well as the Anglo-French rivalry which culminated in the Hundred Years' War.

HISTORY 432R Tudor England, 1485-1603
This course covers England from the accession of Henry VII, the first Tudor, to the death of Elizabeth I in 1603 Topics to be covered are: transformation of England into a modern state, the Reformation, the role of Parliament, conflicts with European powers, especially Spain, etc. Also offered as HISTORY 5532.

HISTORY 433 Jacksonian Period

HISTORY 433R History of Britain 1603-1832
This course analyzes the rise and fall of the Stuart dynasty and the effects of civil war, rebellion, and religious turmoil on the peoples of Britain. The domination of politics and culture by the aristocracy in the eighteenth century is examined. The rise of the Navy due to constant warfare and the exploration of the Pacific are discussed. The monarchy of George III, the loss of the American colonies, and the wars with Napoleon are examined. Finally, the Agricultural and early Industrial Revolutions are considered through an analysis of the social changes they brought in Britain and the Empire

HISTORY 434 American Civil War And Reconstruction

HISTORY 434R History of Britain 1832-Present
This course surveys the history of the British Isles from the industrial revolution to the present day. Topics include Victorian
society, the rise of the class system, imperialism, the domestic impact of the two world wars, the reaction to the loss of the Empire, pop culture, and contemporary issues.

**HISTORY 434R History of Britain 1832-Present**
This course surveys the history of the British Isles from the industrial revolution to the present day. Topics include Victorian society, the rise of the class system, imperialism, the domestic impact of the two world wars, the reaction to the loss of the Empire, pop culture, and contemporary issues.

**HISTORY 436R Modern German History**
This course traces the history of Central Europe from the fall of Bismarck to the reunification of Germany one century later. It will ask students to think critically about the relationship between state and society, elites and 'ordinary' Germans, in the various German-speaking regimes that existed over the course of this era: two empires, two interwar republics, two fascist dictatorships, and three post-fascist republics. All assigned readings will be in English; a background knowledge of European history is recommended. This course follows from HIST 435 / HISTORY 535: the contents and assignments will be coordinated, but the former course is not a prerequisite for the latter.

**HISTORY 437AWI Imperial Germanies, 1848-1918**
This course traces the history of German-speaking Central Europe from the Revolutions of 1848 to the collapse of the Hohenzollern and Habsburg empires at the end of World War One. It will ask students to think critically about the relationship between state and society and the role played by 'elite' and 'ordinary' people in shaping German history. This reading and writing intensive course will be run as a seminar. Final grades will be based on a portfolio of assignments of which students will select what they consider to be the best examples of their work. Prerequisites: HISTORY 202, HISTORY 208 or equivalent

**HISTORY 437BW1 First German Republics, 1917-1935**
This course traces the history of the two German Republics during the inter-war years—the First Austrian Republic and the so-called Weimar Republic—from the peace movements of the First World War to the solidification of fascist dictatorships. It will ask students to think critically about the relationship between state and society and the role played by 'elite' and 'ordinary' people in shaping German history. This reading and writing-intensive course will be run as a seminar. Final grades will be based on a portfolio of assignments of which students will select what they consider to be the best portfolio of assignments of which students will select what they consider to be the best examples of their work. Prerequisites: HISTORY 202, HISTORY 208 or equivalent

**HISTORY 437CW1 The Third Reich, 1930-1950**
This course traces the history of the Third Reich—its origins, nature, and crimes against humanity—from its first electoral successes in the Great Depression to the trials of its leaders for various war crimes. At its center stand the challenging questions of the ethical and historical responsibility for the Holocaust. It will ask students to think critically about the relationship between state and society and the role played by 'elite' and 'ordinary' people in shaping this tragic era of German and European history. This reading and writing-intensive course will be run as a seminar. Final grades will be based on a portfolio of assignments of which students will select what they consider to be the best examples of their work. Prerequisites: HISTORY 202, HISTORY 208 or equivalent

**HISTORY 437DW1 Cold War Germanies, 1941-1991**
This course traces the history of the three postwar German Republics—the Second Austrian Republic, the German Democratic Republic, and the Federal Republic of Germany—from the initial plans of the Allies for postwar reconstruction to the Reunification of Germany in 1991. It will ask students to think critically about relationship between state and society and the role played by 'elite' and 'ordinary' people in shaping, and in the remembering, of German history. This reading and writing-intensive course will be run as a seminar. Final grades will be based on a portfolio of assignments of which students will select what they consider to be the best examples of their work. Prerequisites: HISTORY 202, HISTORY 208 or equivalent

**HISTORY 444R Islam And The Arabs: The Formative Period**
The first semester of a three-semester sequence begins with a brief overview of the geography and topography of the Middle East. The course proceeds with a discussion of the conditions of pre-Islamic Arabia; the appearance of Muhammad and his mission; the rise and spread of Islam; the establishment and consolidation of the Arab dynasties in the Middle East, North Africa and Spain; Islamic institutions; and Islamic society and culture. The time span will be approximately 500 A.D. to the Mongol conquest of Baghdad in 1258. Also offered as HISTORY 544.

**HISTORY 445 The Ottoman Empire In The Middle East To World War I**
The second semester of a three-semester sequence covers the transition from Arab to Turkish hegemony in most of the Middle East as well as the restoration of native Persian dynasties in Iran and their subsequent development. The emphasis is on the rise and decline of the Ottoman Turkish Empire. Attention is given to the Ottoman provinces and to the national movements of subject peoples. The course ends with an overview of World War I and the peace treaties which marked the dissolution of the Ottoman Empire. HISTORY 444R is not a prerequisite. Also offered as HISTORY 545.
HISTORY 446R The Middle East From World War I To The Present
The third semester of a three-semester sequence deals with the emergence of the modern countries of the Middle East after World War I and their history and course of development to the present day. There will be a general survey of the government and politics, economic situation, and social and cultural characteristics of each important country in the area. In addition, special topics will be discussed such as the modernization process, ideological alternatives, relations with the great powers, the economics and politics of oil, and the Arab-Israeli conflict. HISTORY 444R and HISTORY 445 are not prerequisites. Also offered as HISTORY 546.

HISTORY 462J Japanese Civilization
A survey of Japanese civilization and cultural history from the prehistorical period to the present. Emphasis on the interplay between religion, the arts, politics, and social structure.

HISTORY 464 Medieval Methods and Paleography
This course examines the methodology and historiography of Medieval Studies. Through an introduction to paleography, the study of medieval handwritings, it prepares students for advanced work in Medieval and Renaissance studies. Using an interdisciplinary approach, this course will examine the historical and cultural settings for medieval texts, their physical form and production, as well as the tradition of textural transmission in the medieval world. In addition to gaining familiarity with the many different types of primary sources, such as literary, artistic, legal, and notarial sources, students will be exposed to methods for practical archival work in various European nations. Prerequisite: First Year Latin or permission from instructor. Offered: On Demand

HISTORY 468R Archaeology And The History Of Antiquity
This course will analyze the contributions of archaeology to the understanding of ancient history. It will cover archaeological excavations and their pertinence to classical civilization in the Near East and Greece. The techniques and methodology of field archaeologists will be discussed and demonstrated. Archaeological excavations relating to the Hittite capital, to the Ugaritic tablets, to the Minoan-Mycenaean civilization and its link to the Near East will be treated. Also offered as HISTORY 568R.

HISTORY 469 Archeology And Biblical History
An examination of ancient Israel as she emerges from the ruins of the past, both lapidary and literary. Through a study of the "mute documents," artifacts man-made (storied cities, household utensils, inscribed shards from Jericho to Jerusalem) we gain an insight indispensable for Biblical studies, for ancient Near Eastern history. Also offered as HISTORY 569R.

HISTORY 470 Ancient Egypt
This course begins with a survey of the pre-classical Minoan and Mycenaean civilizations and then describes the rise of prominent Greek city-states (with particular emphasis upon the evolution of Sparta and the political, social and cultural contributions of Athens). The course concludes with the rise of Macedon and Alexander's conquests and significance. Also offered as HISTORY 571R.

HISTORY 470P Ancient World: The Social History Of The Ancient World
The optional four-credit-hour component (modified independent study) will concern the social aspects of these civilizations, i.e., their daily lives. Readings and audiovisual aids will be used to help the student who will be expected to choose one aspect of each civilization, such as women, slavery, merchants, education, medicine, etc., and write a five-page paper about that topic for each period, i.e., Mesopotamia, Egypt, Greece and Rome.

HISTORY 471 Ancient Greece
This course begins with a survey of the pre-classical Minoan and Mycenaean civilizations and then describes the rise of prominent Greek city-states (with particular emphasis upon the evolution of Sparta and the political, social and cultural contributions of Athens). The course concludes with the rise of Macedon and Alexander's conquests and significance. Also offered as HISTORY 571R.

HISTORY 471P Ancient World: The Political Structure Of The Ancient World
The four-hour lecture period on weeknights will emphasize the historical aspects of the ancient civilizations. The lectures will be
chronologically organized to focus upon their evolution from their rise to their collapse.

**HISTORY 472 Ancient Rome**  
This course covers Roman history from its origins (including the Etruscans) to the decline of the imperial system. Particular emphasis is placed upon the political, social and economic developments in the Republic, the death of the Republic, the early Principate, and the factors that led to Rome's decline in the ancient world. Also offered as HISTORY 572R.

**HISTORY 472P Ancient World: The Cul/Intellectual Dimension Of Ancient Civi**  
The four weekend periods will provide the students with a general picture of these civilizations: society, religion, economics, and culture (w.f., arts, literature, philosophy, science, etc.). Guest lecturers, slides, films and video cassettes will be used to introduce the varied aspects of these ancient peoples.

**HISTORY 475WI The History Of Ancient Israel**  
Judaism has had a tremendous impact on our civilization and yet most Americans are only dimly aware of its origins and development. This course will trace the roots of the Jewish religion in its historical context from its beginnings through the formation of rabbinic culture. The rise of Christianity will be examined in its original Judaic context, and recent discoveries, particularly those pertaining to the Dead Sea Scrolls, will be interpreted. Offered: Fall

**HISTORY 476 Medieval Jewish History**  
This course covers the general period from the decline of the Roman Empire to the dawn of early modern times. It is concerned with Jewish centers of life and learning in the Diaspora, both East and West. The course considers the Jews under Islamic rule from the time of Mohammed through the Golden Age of Moorish Spain. The focus then shifts to the situation of the Jews in Christian Europe, from the period of Constantine to the expulsions from England, France and Christian Spain. The Jews in the Ottoman Empire are mentioned and the course ends with the episode of Sabbatai Zevi, the false Messiah. Also offered as HISTORY 576R.

**HISTORY 477 Modern Jewish History**  
This course surveys modern Jewish history from the Napoleonic period to World War II. Analyzing the social status of the Jews in Medieval Europe, it proceeds towards a discussion of the growth of the national state and the breakup of the Holy Roman Empire and analyzes the growth of socialism, integral nationalism, and liberalism as they affected the Jewish communities in Europe and America. The course serves as a survey of modern political and economic trends as they affect a distinct group. Also offered as HISTORY 577R.

**HISTORY 496 Historical Research Project**  
Working extensively with an individual faculty member actively engaged in his/her research, students practice the multiple facets of investigating the sources of history, developing a comprehensive analysis from such sources, and composing a persuasive interpretation. Prerequisite: HISTORY 301WI and instructor's approval. Offered: On demand.

**HISTORY 497XCA Special Topics and Readings**  
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. On demand.

**HISTORY H497 Special Topics And Readings**  
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. On demand.
Honors (HONORS)

HONORS 100 First Year Seminar
This course is designed to help first-year Honors students understand the foundations of higher education and better navigate the college experience. We will study the infrastructure of educational institutions and discuss the historical, cultural, and financial aspects of a university system. Students will also participate in several campus and community events, including a service-learning project. Offered: Fall. Restrictions: Must be admitted into Honors Program

HONORS 100 First Year Seminar
This course is designed to help first-year Honors students understand the foundations of higher education and better navigate the college experience. We will study the infrastructure of educational institutions and discuss the historical, cultural, and financial aspects of a university system. Students will also participate in several campus and community events, including a service-learning project. Offered: Fall. Restrictions: Must be admitted into Honors Program

HONORS 101 Freshman Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be Admitted into the Honors Program

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This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be Admitted into the Honors Program

HONORS 102 Freshman Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be admitted into the Honors Program

HONORS 102 Freshman Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be admitted into the Honors Program

HONORS 201 Sophomore Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be admitted into the Honors Program

HONORS 202 Sophomore Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be admitted into the Honors Program

HONORS 301 Junior Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be admitted into the Honors Program

HONORS 302 Junior Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be admitted into the Honors Program
HONORS 350 Honors Tutorial
Independent Study Offered: Spring

HONORS 350 Honors Tutorial
Independent Study Offered: Spring

HONORS 360 College Student Engagement
This course focuses on understanding and cultivating student engagement in college. Students attend campus and/or community events and design their own campus event focusing on engaging students around the Honors Colloquium's topic for spring semester. Students will hone their leadership and communication skills as they design and implement this event.

HONORS 401 Senior Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be admitted into the Honors Program

HONORS 402 Senior Honors Colloquium
This one hour interdisciplinary course is designed to foster a shared intellectual community among the Honors Program members. Guest lecturers from UMKC and the greater Kansas City region will speak on a given theme, to change from year to year. Required for participation in the Honors Program. Prerequisite: None Offered: Fall and Winter Restrictions: Must be admitted into the Honors Program

HONORS 495AA Senior Thesis Anthropology
Students who have completed the requirements for the Honors Program may choose to do independent research and then write or create a senior thesis. If the thesis is acceptable as an honors thesis the student will then graduate as an Honors College Scholar. Offered: Every Semester Restrictions: Consent of Honors Director and Thesis Advisor

HONORS 495F Senior Thesis-Economics
Students who have completed the requirements for the Honors Program may choose to do independent research and then write or create a senior thesis. If the thesis is acceptable as an honors thesis the student will then graduate as an Honors College Scholar. Offered: Every Semester Restrictions: Consent of Honors Director and Thesis Advisor

HONORS 495G Senior Thesis-English
Students who have completed the requirements for the Honors Program may choose to do independent research and then write or create a senior thesis. If the thesis is acceptable as an honors thesis the student will then graduate as an Honors College Scholar. Offered: Every Semester Restrictions: Consent of Honors Director and Thesis Advisor

HONORS 495N Senior Thesis-Philosophy
Students who have completed the requirements for the Honors Program may choose to do independent research and then write or create a senior thesis. If the thesis is acceptable as an honors thesis the student will then graduate as an Honors College Scholar. Offered: Every Semester Restrictions: Consent of Honors Director and Thesis Advisor

HONORS 495NN Senior Thesis-Nursing

HONORS 495O Senior Thesis-Political Science
Students who have completed the requirements for the Honors Program may choose to do independent research and then write or create a senior thesis. If the thesis is acceptable as an honors thesis the student will then graduate as an Honors College Scholar. Offered: Every Semester Restrictions: Consent of Honors Director and Thesis Advisor

Italian (ITALIAN)
ITALIAN 110 Elementary Italian I
Intended to give the student the ability to read prose of ordinary difficulty and to understand and speak simple Italian. Fall.
ITALIAN 120 Elementary Italian II
Continuation of ITALIAN 110. Winter. Prerequisite(s): Italian 110 or equivalent.

ITALIAN 211 Second Year Italian I
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: ITALIAN 120. Fall.

ITALIAN 221 Second Year Italian II
Continuation of ITALIAN 211.

ITALIAN 221 Second Year Italian II
Continuation of ITALIAN 211.

ITALIAN 280 Special Intermediate Italian Topics I
Instruction of Italian on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed. Restrictions: Permission of chair required.

ITALIAN 290 Special Intermediate Italian Topics II
Continuation of ITALIAN 280. May not be repeated for credit. As needed. Restrictions: Permission of chair required.

Latin (LATIN)

LATIN 110 Elementary Latin I
Fundamentals of grammar and syntax; selected passages from various Latin authors concluding with readings from Caesar. Every fall.

LATIN 120 Elementary Latin II
Continuation of LATIN 110. Every Winter. Prerequisite(s): LATIN 110 or equivalent.

LATIN 211 Second Year Latin Readings I
Selected readings from works by various Latin authors. Grammar review. Prerequisite: LATIN 20. Fall.

LATIN 221 Second Year Latin Readings II
Continuation of LATIN 211. Winter.

LATIN 280 Special Intermediate Latin Topics I
Instruction of Latin on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

LATIN 280A Special Intermediate Latin Topics I
Instruction of Latin on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

LATIN 290 Special Intermediate Latin Topics II
Continuation of LATIN 280. May not be repeated for credit. As needed.

LATIN 290A Special Intermediate Latin Topics II
Continuation of LATIN 280. May not be repeated for credit. As needed.

LATIN 301 Virgil
Selected readings in Classical Latin from the works of Virgil. Prerequisite: Latin 211 or consent from the instructor.

LATIN 302 Ovid
Selected readings in Classical Latin from Ovid's Metamorphoses. Prerequisite: Latin 211 or consent from the instructor.

LATIN 311 Prose Fiction and Epistolography
Selected readings in Classical Latin from Apuleius, Cicero, Petronius, Pliny, etc. Prerequisite: Latin 211 or consent of the instructor.
LATIN 314 Lyric and Elegiac Poetry
Selected readings in Classical Latin from Catullus, Horace, Martial, Ovid, etc. Prerequisite: Latin 211 or Consent from the instructor.

LATIN 490 Special Readings In Latin
Intensive readings in period or genre or literary figure to be selected by the student in consultation with the instructor. Available only to advanced Latin students.

Mathematics (MATH)
MATH 100 Intermediate Algebra
Numbers and their arithmetic properties, introduction to elementary algebra including exponents and radicals, elementary geometry and formulas, linear and quadratic functions and their graphs, and equations with two unknowns. Given on credit, no-credit basis. Does not fulfill Arts and Sciences mathematics requirement. Does not count toward graduation.

MATH 105 The Language Of Mathematics
Reading comprehension and writing skills in the language of Mathematics; grammar, syntax and logic, understanding, expressing, proving; recognizing and employing common patterns of mathematical thought; emphasizing not what is said, but how it is said. Particularly useful to students returning to school after a long hiatus, the math-anxious, students with weak skills, and those interested in elementary or middle school teaching. Prerequisite: Three units of high school mathematics

MATH 110 College Algebra
Review of elementary algebra, solution of equations, functions, exponential and logarithmic functions, inequalities, systems of linear equations, equations of second degree and their graphs, binomial theorem, complex numbers, and polynomials. Credit will not be given for both MATH 110 and MATH 120. Prerequisite: Three units of high school mathematics (Algebra I and higher) or MATH 100.

MATH 110 College Algebra
Review of elementary algebra, solution of equations, functions, exponential and logarithmic functions, inequalities, systems of linear equations, equations of second degree and their graphs, binomial theorem, complex numbers, and polynomials. Credit will not be given for both MATH 110 and MATH 120. Prerequisite: Three units of high school mathematics (Algebra I and higher) or MATH 100.

MATH 116 Mathematics For Liberal Arts
A survey of elementary mathematics covering such topics as: logic, sets, counting methods, introduction to probability theory, introductory statistics, plane and coordinate geometry. The course will emphasize mathematical concepts and does not require the level of computational skill of College Algebra. Topics from the history of mathematics will be presented as well as the influence of mathematics on a variety of disciplines. Prerequisite: Three units of high school mathematics (Algebra I and higher).

MATH 120 Precalculus
Review of elementary algebra, solution of equations, functions, inequalities, systems of linear equations, exponential and logarithmic functions, trigonometric functions, trigonometric identities, triangles, equations of second degree and their graphs, binomial theorem, complex numbers, and polynomials. Credit will not be given for both Math 120 and Math 110 or for both MATH 120 and MATH 125. Prerequisites: Three units of high school mathematics (Algebra I or higher) or MATH 100.

MATH 125 Trigonometry
Trigonometric functions, trigonometric identities, triangles, and complex numbers. Credit will not be given for both MATH 125 and MATH 120. Prerequisite: Two units of high school algebra and one unit of geometry, or MATH 110.

MATH 130 Mathematics For Teachers: Number Systems
Designed for elementary school teachers. A constructive development of the real number system beginning with the system of whole numbers; concepts from elementary number theory; applications of quantitative systems to problems in discrete mathematics. Prerequisite: High school algebra and geometry.

MATH 140 Mathematics For Teachers: Elementary Geometry
Designed for elementary school teachers. A development from informal geometric concepts to elements of the Euclidean
deductive system; groups of congruence transformations, similarity transformations and symmetries; coordinate systems and vectors. Prerequisite: High school algebra and geometry.

**MATH 202 Analytic Geometry**
Coordinate plane, lines, circles, the parabola, the ellipse, the hyperbola, transformation of coordinates, equations of the second degree, curve sketching, polar coordinates and parametric equations, complex numbers, vectors and vector operations, and solid analytic geometry. Prerequisites: 4 units of high school math, or MATH 110 and credit for or concurrent enrollment in MATH 125.

**MATH 204 Mathematics For Teachers: Mathematical Immersion**
Adaptable for elementary-, middle-, or secondary-school mathematics teachers. Intensive problem solving experience. Develop confidence and enthusiasm about recognizing mathematics reasoning in oneself and in students. Combat mathematics anxiety and myths. Encourage flexibility in the mathematical knowledge of teacher candidates. Prerequisites: MATH 120, MATH 130, MATH 140, or any mathematics course numbered 200 or above.

**MATH 205 Discrete Mathematics**
Logic, sets, and functions. Algorithms, especially integer algorithms. Methods of proof, especially induction and recursion, counting principles, and discrete probability. Relations and partial ordering with applications. Graphs, circuits, and paths. Prerequisite: 4 units of high school math, or MATH 110.

**MATH 206 Brief Calculus And Matrix Algebra**
Brief review of selected topics in algebra. Introduction to matrix algebra. Introduction to differential calculus and optimization. Applications to problems in business. Credit will not be given for both MATH 160 and MATH 206 Prerequisite: MATH 110, or equivalent.

**MATH 210 Calculus I**
Functions and graphs, rational, trigonometric, exponential functions, composite and inverse functions, limits and continuity, differentiation and its applications, integration and its applications. Prerequisite: Four units of high school mathematics including trigonometry, or MATH 120, or MATH 110 and MATH 125, or MATH 202.

**MATH 214 Mathematics For Teachers: Algebra**
Designed for middle school mathematics teachers. Algebraic reasoning, patterns and inductive reasoning, arithmetic and algebra of integers, algebraic systems, algebraic modeling in geometry, axiomatic mathematics. Prerequisites: MATH 110, MATH 130, and one of MATH 140 or MATH 224.

**MATH 216 Biomath I: Calculus and Modeling**
Introductory calculus designed for students in the biological sciences or mathematic majors interested in the application of mathematics to these sciences. Biomath I provides the mathematical content of a Calculus I course in a biological context. Topics include functions, limits and continuity, trigonometric functions, exponential functions, composite and inverse functions, limits and continuity, differentiation and its applications, integration and its applications, mathematical modeling, and discrete dynamical systems. Credit will not be given for both Math 216 and Math 210. Prerequisites: Four units of high school mathematics including trigonometry, or Math 120, or Math 110 and math 125, or Math 202.

**MATH 220 Calculus II**
Techniques of integration, applications of the definite integral, improper integrals, sequences and series, power series. Taylor series and convergence, analytic geometry in calculus. Prerequisite: MATH 210 or MATH 216

**MATH 220 Calculus II**
Techniques of integration, applications of the definite integral, improper integrals, sequences and series, power series. Taylor series and convergence, analytic geometry in calculus. Prerequisite: MATH 210 or MATH 216

**MATH 220 Calculus II**
Techniques of integration, applications of the definite integral, improper integrals, sequences and series, power series. Taylor series and convergence, analytic geometry in calculus. Prerequisite: MATH 210 or MATH 216

**MATH 224 Mathematics For Teachers: Geometry**
Designed for middle school mathematics teachers to connect middle school and college mathematics. Geometric reasoning, Euclidean geometry, congruence, area and volume, similarity, rigid motions and symmetry, vectors and transformations, some other geometries. Prerequisites: MATH 110 and MATH 130; MATH 140 is recommended.

**MATH 226 Biomath II: Statistics and Modeling**
Calculus-based statistics and modeling designed for students in the biological sciences or mathematics majors interested in the
application of mathematics to these sciences. Topics include introductory ordinary differential equations, continuous dynamical systems, stochastic modeling, elementary probability, random variables, binomial distributions, Poisson distributions, normal distributions, point estimation, confidence intervals, hypothesis testing, ANOVA, and regression. Credit will not be given for both Math 226 and Stat 235 or Stat 236. Prerequisites: Math 210 or Math 216.

**MATH 244 Mathematics For Teachers: Calculus**
Designed for elementary-and middle-school mathematics teachers. Elementary calculus, beginning with sequences and series, proceeding to functions, limits, continuity, differentiation and integration. Focus on concepts and applications with a discovery and inquiry approach. Prerequisites: Four units of high school mathematics including Trigonometry, or MATH 120, or MATH 110 and MATH 125.

**MATH 244 Mathematics For Teachers: Calculus**
Designed for elementary-and middle-school mathematics teachers. Elementary calculus, beginning with sequences and series, proceeding to functions, limits, continuity, differentiation and integration. Focus on concepts and applications with a discovery and inquiry approach. Prerequisites: Four units of high school mathematics including Trigonometry, or MATH 120, or MATH 110 and MATH 125.

**MATH 244 Mathematics For Teachers: Calculus**
Designed for elementary-and middle-school mathematics teachers. Elementary calculus, beginning with sequences and series, proceeding to functions, limits, continuity, differentiation and integration. Focus on concepts and applications with a discovery and inquiry approach. Prerequisites: Four units of high school mathematics including Trigonometry, or MATH 120, or MATH 110 and MATH 125.

**MATH 250 Calculus III**
Vectors, solid analytic geometry, vector functions and multiple variable functions, partial derivatives, multiple integrals, line and surface integrals with applications. Prerequisite: MATH 220.

**MATH 300 Linear Algebra I**
Linear equations, matrix algebra, real vector spaces, linear transformations, determinants, eigenvalues and eigenvectors, orthogonality, and applications. Prerequisite: MATH 250, or Math 220 and Comp-Sci 191, or consent of the instructor.

**MATH 301 On Solid Ground: Sets And Proofs**
Transition to advanced mathematics, elements of set theory and cardinality of sets, logic, mathematical proof techniques, induction, functions, elementary proofs in various subjects such as algebra, number theory, calculus, and others as time permits. Satisfies a state requirement for teacher certification. Prerequisite: MATH 220

**MATH 345 Ordinary Differential Equations**
First order equations, linear second order differential equations, Taylor series and power series solutions, Laplace transforms, elementary systems of differential equations, numerical methods, and Fourier series and boundary value problems. Prerequisite: MATH 250.

**MATH 402 Advanced Analysis I**
Numerical sequences and completeness of the real numbers, numerical series, continuity and differentiation of real-valued functions of a real variable, integration and the fundamental theorem of calculus. Prerequisite: MATH 250 and MATH 301

**MATH 406 Partial Differential Equations**
Separation of variables, boundary value problems, Fourier series and integrals, wave equation, heat equation, potential equation, problems in several dimensions, and Bessel's differential equation. Prerequisite: MATH 345.

**MATH 407 Introduction To Complex Variables**
Complex numbers, complex differentiation, elementary functions, contour integration and the Cauchy integral formula, Taylor series and Laurent series, residue calculus and its applications, and special functions. Prerequisites: MATH 250, and one of MATH 300, MATH 301, or MATH 345, with MATH 301 recommended.

**MATH 410 Modern Algebra**
Groups, rings, integral domains, fields and polynomial rings. Prerequisite: MATH 300 and MATH 301.

**MATH 412 Advanced Analysis II**
Topics in advanced analysis such as sequences and series of functions, power series and elementary functions, Fourier series, metric spaces, analysis in Euclidean spaces, or advanced integration. Prerequisite: MATH 402 or consent of instructor.
MATH 414 Mathematics For Secondary Teachers: Algebra And Analysis
Designed for secondary-school teachers. Examine high school mathematics from a higher point of view. Real and complex numbers, functions, algebraic structures of equations, integers and polynomials, number system structures; analyses of alternate approaches, extensions, and applications of mathematical ideas, discussion of historical contexts and connections between ideas that may have been studied separately in different courses, relationships of ideas studied in secondary-school to those students may encounter in later study. When taken for graduate credit as MATH 5514, an extra project is required. Prerequisites: MATH 300 and 301.

MATH 444 Modern Geometries
Modern axiomatic development of Euclidean geometry and neutral geometry, followed by examination of non-Euclidean geometries; geometric transformations, and other geometries as time permits. Satisfies a state requirement for teacher certification. Prerequisites: MATH 300 and MATH 301

MATH 464WI History Of Mathematics
Topics in the History of Mathematics from Babylonian times through the invention and consolidation of Calculus, with some modern subjects as time permits. The course will emphasize proofs, ideas, and arguments as given in original sources (in translation) from around the world and throughout history. In this writing intensive course, one or two term papers, in addition to several short essays and historical proof explications are required. A field trip will be taken to the Linda Hall Library Rare Book Room. This course is of special interest to secondary mathematics teachers as well as mathematics majors. Prerequisites: MATH 301 or consent from the instructor.
MATH 461WI History Of Mathematics
Topics in the History of Mathematics from Babylonian times through the invention and consolidation of Calculus, with some modern subjects as time permits. The course will emphasize proofs, ideas, and arguments as given in original sources (in translation) from around the world and throughout history. In this writing intensive course, one or two term papers, in addition to several short essays and historical proof explications are required. A field trip will be taken to the Linda Hall Library Rare Book Room. This course is of special interest to secondary mathematics teachers as well as mathematics majors. Prerequisites: MATH 301 or consent from the instructor.

MATH 490 Special Topics
Selected topics in various fields of mathematics. May be repeated for credit when the topic varies. Prerequisite: consent of instructor. On demand.

Military Science (MIL-SCI)
MIL-SCI 102 Leadership Practicum
Examines leadership in basic tactical and patrolling operations, Includes a tactical application exercise and participation in physical fitness conditioning as a course requirement. Students practice leadership according to 16 principles and learn basic soldier skills. Corequisite: MIL-SCI 116 Offered: Fall Semester

MIL-SCI 112 Leadership Practicum
Examines advanced squad and platoon tactical operations with emphasis on patrolling operations. Topics include: leadership techniques, basic first aid, and problem-solving exercises. A tactical field application exercise and physical fitness conditioning program are included as course requirements. Students perform duties as leaders of small units. Corequisite: MIL-SCI 126. Offered: Spring.

MIL-SCI 116 Foundations of Officership
The course introduces the student to issues and competencies that are central to a commissioned officer's responsibilities. These initial lessons establish a framework for understanding officership, leadership, and Army values. Additionally, the semester addresses life skills, including physical fitness and time management. This course is designed to give the student an accurate insight into the Army profession and the officer's role in the Army. Corequisite: MIL-SCI 102

MIL-SCI 126 Basic Leadership
This course focuses on leadership theory and decision making. ""Life skills"" lessons in this course include: problem solving, critical thinking, leadership theory, followership, group interaction, goal setting, and feedback mechanisms. Upon completion of this course, students are prepared to advance to more complex leadership instruction concerning the dynamics of organization. Additionally, students will be increasingly required to demonstrate knowledge of leadership fundamentals and communications (written and oral). Corequisite: MIL-SCI 112. Offered: Spring.

MIL-SCI 202 Leadership Practicum
Course examines squad and platoon offensive and defensive operations and leadership procedures in patrolling operations. Includes a tactical application exercise and participation in physical fitness conditioning as a course requirement. Students will perform various leadership roles and present classroom instruction. Corequisite: MIL-SCI 216

MIL-SCI 205 Reserve Officer Training Corps
Five weeks of preparatory training at Fort Knox, Kentucky. Travel pay and salary stipend provided through Military Science Department. The student is not obligated to any military service as a result of attending Basic Camp. Camp graduates are eligible to enroll in advanced military science courses and may be considered for a commission as a second lieutenant in the U. S. Army, Army Reserves or National Guard. Students are also eligible to compete for a full-tuition two-year scholarships. All College of Arts and Sciences students who complete this course can receive Physical Education credit.

MIL-SCI 212 Leadership Practicum
Examines advanced squad and platoon offensive and defensive operations, reaction to obstacles, and leadership procedures in patrolling operations. Includes a tactical application exercise and participation in physical fitness conditioning as a course requirement. Students will perform in various leadership roles and present classroom instruction. Corequisite: MIL-ACI 226

MIL-SCI 216 Individual Leadership Series
This course is designed to develop within the student a knowledge of self, self-confidence and individual skills, Through experiential learning activities, students will develop problem-solving and critical-thinking skills, apply communication, feedback and conflict-resolution skills. This course delves into several aspects of communication and leadership theory. The focus of the course is on critical "life skills" which enable the student's future success. The course concludes with a major leadership and problem-solving case study which draws upon previous instruction. Prerequisites: MIL-SCI 126, or the consent of
the Department Chairperson; Corequisite: MIL-SCI 202

**MIL-SCI 226 Leadership and Teamwork**
This course focuses on self-development guided by knowledge of self and group processes. Experiential learning activities are designed to challenge students' current beliefs, knowledge and skills. This semester takes the approach of placing students in a wide variety of group exercises designed to emphasize various leadership competencies and insights. The instructor, acting as a facilitator, helps guide student processing of the events to derive the leadership, group dynamics and problem-solving lessons that the exercises offer. Practical 'life skills' are emphasized throughout. Prerequisites: MIL-SCI 216 or consent of the Department Chairperson; Corequisite: MIL-SCI 212

**MIL-SCI 302 Leadership Practicum**
Examines squad and platoon offensive and defensive operations, the patrol leader in patrolling operations, and a tactical application exercise. Participation in physical fitness conditioning and a tactical application exercise is required. Students will perform in various leadership roles and present classroom instruction. Prerequisite: MIL-SCI 222 or MIL-SCI 226; Corequisite: MIL-SCI 316. Offered: Fall.

**MIL-SCI 312 Leadership Practicum**
Familiarization with military firearms; includes assembly and disassembly; tactical communications; and the field artillery request and a tactical application exercise. Participation in physical fitness conditioning and a tactical application exercise is required. Students will perform in various leadership roles and present classroom instruction. Prerequisite: MIL-SCI 316; Corequisite: MIL-SCI 326. Offered: Spring.

**MIL-SCI 316 Leadership and Problem Solving**
Following an introduction to the principles of physical fitness and healthy lifestyles, lessons will cover: the Leader Development Program, planning and conducting individual and small unit training, basic tactical principles, reasoning skills and the military-specific application of these skills in the form of the Army's troop-leading procedures. The course concludes with a detailed examination of officership, which culminates in a five-hour officership case study. Prerequisites: MIL-SCI 222 or MIL-SCI 226; Corequisite: MIL-SCI 302. Offered: Fall.

**MIL-SCI 326 Leadership and Ethics**
Continues the focus from MIL-SCI 316 on doctrinal leadership and tactical operations at the small unit level. Instructional modules include: Army branches, Army leadership, philosophy, dynamics of a group environment, oral and written presentation skills, culminating in instruction in national and Army values and ethics. This critical semester synthesizes the various components of training, leadership and team building. Prerequisites: MIL-SCI 316; Corequisite: MIL-SCI 312. Offered: Spring Semester.

**MIL-SCI 402 Leadership Practicum**
Practical applications in problem analysis, decision making, planning and organization, delegation and control, and development of interpersonal skills required for effective management. Participation in physical fitness conditioning and tactical application exercise is required. Students will perform in various leadership positions and present classroom instruction. Prerequisite: MIL-SCI 326; Corequisite: MIL-SCI 416. Offered: Fall.

**MIL-SCI 412 Leadership Practicum**
Practical applications in problem analysis, decision making, planning and organization, delegation and control, and development of interpersonal skills required for effective management, includes a tactical application exercise. Participation in physical fitness conditioning is required. Students will perform various leadership roles and conduct classroom instruction. Prerequisites: MIL-SCI 416; Corequisite: MIL-SCI 426

**MIL-SCI 416 Leadership And Management**
A series of lessons designed to enable students to make informed career decisions as they prepare for commissioning and service as Second Lieutenants. Classes concentrate on Army operations and training management, and communications and leadership skills, which support the final transition from cadet/student to Lieutenant/leader. Subjects include: The Army Training Management System, coordinating activities with staffs, and counseling skills. At the end of this semester, students should possess the fundamental skills, attributes and abilities to operate as a competent leader in the cadet battalion. Prerequisites: MIL-SCI 326; Corequisite: MIL-SCI 402

**MIL-SCI 426 Officership**
A series of lessons that provide a review of the ethical dimensions of leadership, law in leadership, organizing for military operations to include historical case studies, personnel, supply and maintenance administration and management, personal financial planning and entering the service, The semester concludes with a 12-lesson experiential exercise simulating assignment as a new Lieutenant in a unit. Prerequisites: MIL-SCI 416; Corequisite: MIL-SCI 412
MIL-SCI 497 Leadership And Management Practicum - Directed Study
Practical application in military problem analysis, decision making, planning and organization, delegation and control, and development of interpersonal skills required for effective management. Prerequisite: Instructor's approval. Offered: Summer.

Natural Science (NAT-SCI)
NAT-SCI 101P Changing Life On Earth
This course presents an overview of issues relating to our ever changing world. It is research oriented with papers required on topics dealing with behavior, environmental issues, and aspects of evolution. Prerequisites: Concurrent enrollment with NAT-SCI 102P.

NAT-SCI 102P Fundamentals Of Life Science
This course emphasizes the essential properties of biological systems through four major themes: diversity, the chemical and physical basis of life, continuity, and the organismal nature of life. Prerequisite: Concurrent enrollment in NAT-SCI 103P. As needed.

NAT-SCI 103P Applications Of Life Sciences
This course is designed to provide students with laboratory exercises, field trips, films and discussions that help apply biological principles from 102P. New concepts are introduced throughout the course. Prerequisite: Concurrent enrollment in NAT-SCI 102P. As needed.

NAT-SCI 130 Physics of Sports
A course intended for liberal arts students focusing on the physics involved in different sports. Physical laws and technological developments that impact sports will be studied. Cross-listed with Physics 130 and Physical Science 130.

NAT-SCI 140 How Things Work
A course intended for liberal arts students focusing on the principles of operations, histories, and relationships of objects from our daily environment. The areas of investigation include mechanical and thermal objects, electromagnetism, light, special materials and nuclear energy. This course will meet the area requirement for natural sciences. Cross-listed with Physics 140 and Physical Science 140.

NAT-SCI 140L How Things Work Laboratory
Simple experiments based on everyday experiences are analyzed in terms of conceptual physics. The material includes elements of mechanics of a rigid body, elastic properties of matter, fluid dynamics, thermodynamics, electromagnetism, optics and modern physics. The laboratory supplements the Physical Science 140 lecture and must be taken concurrently with the lecture. Cross-listed with Physics 140L and Physical Science 140L.

NAT-SCI 150 Introduction to Astronomy: Gravity and Motion in the Universe
A survey of modern topics in astronomy with an emphasis on developing conceptual models for the fundamental laws of gravity and motion underpinning the structure and evolution of the universe. Topics include lunar phases, eclipses, planetary motion, exoplanets, formation of planetary systems, star formation, supernovae, white dwarfs, neutron stars, black holes, growth of galaxies, dark matter and the expansion of the universe. Cross-listed with PHYSICS 150 and PHY-SCI 150. Prerequisites: None. Offered: Fall.

NAT-SCI 153L Introductory Astronomy Laboratory
An introductory exploration of astronomical phenomena and concepts through quantitative laboratory activities requiring data collection, analysis and interpretation. This course is open to students from all majors. Concurrent enrollment in either Nat-Sci 150 or Nat-Sci 155 is encouraged but not required. Cross-listed with Phy-Sci 153L and Physics 153L.

NAT-SCI 153L Introductory Astronomy Laboratory
An introductory exploration of astronomical phenomena and concepts through quantitative laboratory activities requiring data collection, analysis and interpretation. This course is open to students from all majors. Concurrent enrollment in either Nat-Sci 150 or Nat-Sci 155 is encouraged but not required. Cross-listed with Phy-Sci 153L and Physics 153L.

NAT-SCI 155 Introduction to Astronomy: Interaction of Light and Matter in the Universe
A survey of modern topics in astronomy with an emphasis on developing conceptual models for the interactions between light and matter underpinning energetic phenomena in the universe. Topics include telescopes and detectors, solar system exploration, planetary climates, nuclear fusion and chemical enrichment, stars and stellar evolution, interstellar material, pulsars, quasars, gamma ray bursts, the Big Bang and the possibility of life beyond Earth. Cross-listed with PHYSICS 155 and PHY-SCI 155. Prerequisites: None. Offered: Spring.
NAT-SCI 171 Physics For Future Presidents
A course intended for liberal arts students focusing on the physics they need to be informed citizens in a democracy. Energy, global warming, terrorism, and health are examples of the important topics examined from the perspective of how science should inform policy.

NAT-SCI 308P Physical Measurements
An introduction to metrology; this course will emphasize physical measurements in technology and trade as well as in daily life. Material will include the historical development of measurement units, from cubits to meters, especially since 1960; gravitational versus absolute systems; the International System of Units (SI); organizations, treaties and statutes; accuracy vs. precision; and numerical values: conventions, conversions and rounding. Student work will involve laboratory exercises, exams, practicum work and homework assignments (brief essays and/or problem solutions). Prerequisite: MATH 110 or MATH 150 (or equivalent) Summer.

NAT-SCI 375P Nature Of Science
Selected topics from the natural sciences. Provides students fundamental principles and concepts of various physical and mathematical sciences. Lectures, demonstrations and discussions provide an integrated approach to the natural sciences.

NAT-SCI 425P Introduction To Quantitative Methods
Topics addressed are the scientific approach to study of behavior (goals of science, research terminology, variables, distributions, measures of central tendency, confidence intervals, use of research methods and ethics in research), experimental design (validity, reliability, design and sampling techniques), and interpretation of research results. Course includes in-class computer data entry and analysis. Prerequisites: Intro to computers and MATH 110 or MATH 116

NAT-SCI 430PC CC: Biological And Ethical Issues In Aging
This course is designed to provide both a disciplinary and interdisciplinary study of the biological, philosophical, and ethical foundations and principles underlying the phenomenon of aging on an individual and societal level. Various physiological, neurological, anatomical, and psychological processes and changes characteristic of the development occurring during the aging process will be identified, studied, and discussed. The philosophical and specifically ethical issues associated traditionally with aging will be re-examined and analyzed in terms of scientific, technological, cultural, sociological, economic, and legal changes in knowledge and attitudes. PREREQUISITE: BIOLOGY 102 or equivalent. This course is also cross-listed as PHILOS 401PC.

PACE - American Studies (AMER-ST)
AMER-ST 301P American Studies:Is/Tutorial:Themes In The American Popular Arts
This course uses the popular arts as an entree to the examination of stereotypes in American life, to a better understanding of challenges to tradition, and to assessing the consequences of conflict that have resulted from cultural pluralism. This is a modified independent study course. Students are exposed to some of America's best-known literature, films and music. Instructional audio tapes and traditional literature about American Culture show the relevance of examples of popular art to broader themes. Prerequisites: Concurrent enrollment in AMER-ST 302P and AMER-ST 303PW. Offered: On demand.

AMER-ST 302P Survey Of American Studies
This course offers a look at changes and continuities in American life from the era of British colonization to the present. It emphasizes philosophical, scientific and creative ideas that have had lasting effects, changing social structure, the factors that determine lifestyle, and the consequences of the national preoccupation with pluralism and consensus. The course also covers the main features of American political history. Prerequisite: Concurrent enrollment in AMER-ST 303PW. Offered: On demand.

AMER-ST 303PW Methods & Problems In American Studies
This course examines four topics that are important in American culture; each topic is approached from a different methodological perspective. The topics (problems) are related to cultural resources in the Kansas City area (such as a museum exhibit or a library research collection) and may change from semester to semester. Methods of problem solving are determined by the topic; however, students should expect to participate in oral history, interpretation of material culture, and traditional archival research and document analysis. Prerequisite: Concurrent enrollment in AMER-ST 302P. Offered: On demand.

AMER-ST 340P American Material Culture: The 20th Century
This course will focus on the material culture of modern and post-modern America. This is an area of inquiry particularly well-suited to the examination of material culture resources. Students will be required to write a term paper or do a material culture project. Offered: Fall

AMER-ST 340PP American Material Culture: The 1950s
This course will focus on the period of American culture from demobilization after World War II to the end of the 1950s--an era particularly well-suited to employing material culture resources as evidence. Students will be required to write a term paper or do
a material culture project.

**AMER-ST 341P American Material Culture: Objects And Images**  
This course will examine American cultural and social history from earliest times to present, with a special emphasis on the ways artifacts and visual images can provide information and insight about the American experience.

**AMER-ST 342P American Material Culture: Museums**  
This course will focus on local institutions that use material culture in their presentation of history and the American experience.

**PACE - Art (ART)**  
**ART 101P Topical Studies**

**PACE - Arts and Sciences (PACE-A&S)**  
**A&S 170 Special Topics**  
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

**A&S 170C Special Topics**  
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

**A&S 280A Special Topics**  
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

**A&S 280P Special Topics**  
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

**A&S 365P Introduction To Substance Abuse Counseling: Theory And Practice**  
This course will introduce the student to the problems of substance abuse and the methods/techniques used in treatment. The course will explore theories of personality and belief systems of the chemically dependent or alcoholic individual. The course will also review the impact of the disease on the family system.

**A&S 400A Special Readings/Topics**

**A&S 400D Special Readings/Topics**

**A&S 400F Special Readings/Topics**

**A&S 400G Special Readings/Topics**

**A&S 400I Special Topics**

**A&S 400K Special Readings/Topics**

**A&S 400SS Special Readings/Topics**

**PACE - English (ENGLISH)**  
**ENGLISH 352P Critical Approaches To The Short Story**  
In this course the student will explore the short story as a literary genre. Stories will range from the early masters such as Chekov, Kafka, and Hawthorne through contemporary offerings from Lessing, Mishima, and Achebe. Several critical approaches will be
presented including formalism, New Historicism, and race/class/gender criticism. Students will keep a reading journal covering all material read for the course, and will be assessed on the basis of this journal, a mid-term and a final examination.

Prerequisites: None.

ENGLISH 354P Masterpieces Of Fiction
The goal of this independent study is to provide the student with time and space to read and respond to 7-9 critically acclaimed and classic novels. Students will be allowed to choose the novels they wish to read from a list of 50 that will be provided by the instructors. This course must be taken in conjunction with at least one of the other two courses in this block in order to ensure that the student has exposure to literary theory. Students will be assessed on the basis of their response journal, casual oral examination, and a critical essay. Prerequisites: None.

ENGLISH 460PW Written Discourse: Speaking, Writing, Composing
Prerequisite: Successful completion of the WEPT (effective FS93).

PACE - Chemistry (CHEM)
CHEM 180P Basic Chemistry
A one-semester survey of basic chemistry including: atomic structure, the periodic table, chemical bonding, chemical reactions, and selected topics from organic, polymer and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 181P. Prerequisite: College Algebra or equivalent. This course is equivalent to CHEM 115.

CHEM 181P Experimental Basic Chemistry
A demonstration/laboratory course designed to support and illustrate the concepts presented in Chemistry 180P. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 180P. Prerequisite: College Algebra or equivalent. This course is equivalent to CHEM 115L.

CHEM 182P Special Projects In Chemistry
An independent study course consisting of library work and field work designed to exemplify various applied aspects of chemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 180P. Prerequisite: College Algebra or equivalent.

PACE - Communication and Information Technology (CIT)
CIT 105P Foundations Of Computing And Problem Solving
This course covers the fundamentals of computer use, problem solving, and programming. Specific topics include: the general use of micro and mainframe computers, algorithm design, the relation of algorithms to programs, the fundamentals of programming in the PASCAL language, and program debugging techniques. This course is presented only in a PACE program format. Prerequisite: Co-enrollment in MATH 110.

CIT 105P Foundations Of Computing And Problem Solving
This course covers the fundamentals of computer use, problem solving, and programming. Specific topics include: the general use of micro and mainframe computers, algorithm design, the relation of algorithms to programs, the fundamentals of programming in the PASCAL language, and program debugging techniques. This course is presented only in a PACE program format. Prerequisite: Co-enrollment in MATH 110.

CIT 106P Computers: Their Uses And Impact
This course covers the history of computing, concepts in and classes of computer hardware and software, classes of computer application, economic issues in the development of computer hardware and software products, and philosophical, social and legal issues in the use (and abuse) of computer technology. This course is presented only in a PACE program format.

CIT 106P Computers: Their Uses And Impact
This course covers the history of computing, concepts in and classes of computer hardware and software, classes of computer application, economic issues in the development of computer hardware and software products, and philosophical, social and legal issues in the use (and abuse) of computer technology. This course is presented only in a PACE program format.

CIT 310P Web Design & Development
This three hour course, Web Design and Development, is designed to introduce the student to the Hyper Text Markup Language (HTML) and its use for the development of web pages. This course is offered online and no scheduled classroom attendance will be required. Correspondence through emails and the class forum is strongly encouraged. Prerequisite: COMP-SCI 105p or consent of instructor.
CIT 310P Web Design & Development
This three hour course, Web Design and Development, is designed to introduce the student to the Hyper Text Markup Language (HTML) and its use for the development of web pages. This course is offered online and no scheduled classroom attendance will be required. Correspondence through emails and the class forum is strongly encouraged. Prerequisite: COMP-SCI 105p or consent of instructor.

CIT 315P Web Graphics & Multimedia
This three hour course, Web Graphics and Multimedia, is a continuation to Web Design and Development. The course material will cover different development tools used to incorporate graphics, sounds, and videos into web pages. This course is offered online and no scheduled classroom attendance will be required. Correspondence through emails and the class forum is required. Prerequisite: COMP-SCI 105p or consent of instructor.

CIT 315P Web Graphics & Multimedia
This three hour course, Web Graphics and Multimedia, is a continuation to Web Design and Development. The course material will cover different development tools used to incorporate graphics, sounds, and videos into web pages. This course is offered online and no scheduled classroom attendance will be required. Correspondence through emails and the class forum is required. Prerequisite: COMP-SCI 105p or consent of instructor.

CIT 420P Cgi Perl
CGI Perl teaches CGI scripting techniques using the CGI.pm Perl module. Students learn how to create on-demand, server-based HTML; write and process fill-out forms; write responses to form submissions back to the client browser; store and process cookies; handle file uploads securely; create, read, and write to text databases. Students also explore CGI Perl's role in server push technology and continuous page updating. Students are not required to have previous Perl programming experience, although a through knowledge of HTML is necessary. Prerequisite: COMP-SCI IT222p or consent of instructor.

CIT 420P Cgi Perl
CGI Perl teaches CGI scripting techniques using the CGI.pm Perl module. Students learn how to create on-demand, server-based HTML; write and process fill-out forms; write responses to form submissions back to the client browser; store and process cookies; handle file uploads securely; create, read, and write to text databases. Students also explore CGI Perl's role in server push technology and continuous page updating. Students are not required to have previous Perl programming experience, although a through knowledge of HTML is necessary. Prerequisite: COMP-SCI IT222p or consent of instructor.

PACE - Communication Studies (COMM-ST)
COMM-ST 254P Communication Competence: Theory And Practice
An introduction to the discipline of communication. A core set of issues is investigated in three major areas of the field: interpersonal communication, small group communication and public speaking. The course design is based on the premise that the development of communication skills involves two important factors: (1) understanding the theoretical principles underlying effective communication behavior and (2) practical application of those principles in various communicative exercises. Offered: Summer.

COMM-ST 260P Introduction To Web Communications
This four credit hour web-based multimedia course will examine the process of critically evaluating information delivered on the Internet. It is designed as an introduction for adults and students who use Internet information for work and/or school. The process of critically evaluating Internet information will be described in four modules: traditional evaluation techniques; searching and researching strategies; Internet evaluation techniques and Internet evaluation resources.

COMM-ST 345P Communication In Organizational Settings
An examination of the major elements of interpersonal, group, and oral communication competence essential to human interaction in organizational settings. The course focuses on developing communication competencies and increasing theoretical understanding of the communication process within the organizational context. prerequisite(s): None.

COMM-ST 361 Broadcast Management
An analysis of the trends, patterns and methods of radio and television operations. Prerequisite: COMM-ST 308. Offered: On demand.

COMM-ST 421P Multimedia & New Media Streaming
This course is designed to teach students the technology of streaming multimedia on the web and analyze the components of interactivity on the web. Students will examine the process of streaming, as well as the various advantages and disadvantages of streaming. Students will study the hardware, software, and technology involved in the different types of streaming media. Prerequisites: COMM-ST 100, COMM-ST 105P or equivalent is recommended.
COMM-ST 422P New Media Writing For The Web
This course is designed to teach students new media writing and the technology of reporting for online publications. Students will analyze the components of online writing, including the design, creation, and transfer of online digital media. Students will be introduced to digital formats and production tools. Students will examine the technology of writing for the web and the particular needs of new media writing for users of the web, techniques to transfer writing electronically, and how to use resources on the web for online reporters. Prerequisites: COMM-ST100, COMM-ST 105P or equivalent is recommended.

COMM-ST 423P Shooting Digital Video For The Web And New Media
This course is designed to teach students the fundamental concepts of digital video, with special consideration given to shooting the new media and the web. Students will learn the process of digital video, the types of file formats, technical considerations of displaying video on the web, and technical features of the digital video camera. This class will enable students to maximize the use of video in various new media digital formats (CD-ROM, DVD, etc.), as well as its use on the web. Prerequisites: COMM-ST 100 COMM ST 105P or equivalent is recommended.

COMM-ST 424P Web Radio
This course is designed to teach students the technology and underlying concepts in producing Web radio. A general overview of radio techniques and historical context, as well as practical and technical information will be given. Legal and copyright implications of making Web radio will be reviewed. Prerequisites: COMM-ST 100, COMM-ST 105P or equivalent is recommended.

COMM-ST 456 Electronic Journalism
A practical approach to the practices and principles of broadcasting news media, including preparing copy for microphone and camera, editing wire copy, reporting public affairs and public relations, and an intensive scrutiny of the concepts of freedom and responsibility as they apply to the press and current legislation. Prerequisite: COMM-ST 351. Fall and winter.

PACE - Criminal Justice and Criminology (CJC)
CJC 353 Ethical And Controversial Issues In Policing
This course covers various ethical and controversial issues confronting law enforcement agencies and examines ethical dilemmas involved in police decision-making with an emphasis on current controversial issues. Topics to be addressed include police misconduct; stop and frisk practices; search and seizure; racial profiling; use of excessive and deadly force; and vehicle pursuits.

CJC 354 Ethical And Controversial Issues In Policing
This course covers various ethical and controversial issues confronting law enforcement agencies and examines ethical dilemmas involved in police decision-making with an emphasis on current controversial issues. Topics to be addressed include police misconduct; stop and frisk practices; search and seizure; racial profiling; use of excessive and deadly force; and vehicle pursuits.

CJC 475P White Collar Crime
This course examines activities variously called white-collar crimes, crimes of privilege, corporate and government crimes, and upperworld crimes. The purpose of the course are (1) to describe, analyze, and assess social impact of these offenses, (2) to examine the capacity of existing theories in criminology and social deviance to account for those activities, (3) to describe the responsibilities, powers, and activities of those agencies which have jurisdiction over them, and (4) to assess the effectiveness of various legal sanctions in controlling such activities and to review the problems involved in legislation intended to achieve that control. Part of PACE Block --Justice and Society. PACE class to meet one night a week from 6:00-10:00 p.m. and one weekend: Fri. 6:00-10:00; Sat 8:00-5:00; Sun 1:00-5:30 for eight weeks in either fall or winter semester.

CJC 475P White Collar Crime
This course examines activities variously called white-collar crimes, crimes of privilege, corporate and government crimes, and upperworld crimes. The purpose of the course are (1) to describe, analyze, and assess social impact of these offenses, (2) to examine the capacity of existing theories in criminology and social deviance to account for those activities, (3) to describe the responsibilities, powers, and activities of those agencies which have jurisdiction over them, and (4) to assess the effectiveness of various legal sanctions in controlling such activities and to review the problems involved in legislation intended to achieve that control. Part of PACE Block --Justice and Society. PACE class to meet one night a week from 6:00-10:00 p.m. and one weekend: Fri. 6:00-10:00; Sat 8:00-5:00; Sun 1:00-5:30 for eight weeks in either fall or winter semester.

PACE - Economics (ECON)
ECON 201P Introduction To Economics I
Economics I deals primarily with macroeconomic or national economic concepts, the economics of the determination of recession, inflation, maintenance of full employment and economic growth, with an emphasis upon the economics of modern Keynesian analyses. It further introduces the economics of Marx and Ayres and discusses relevant and current economic issues. Economics 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every
ECON 202P Introduction To Economics II
Economics II deals primarily with microeconomics, firm analysis, the principles of demand, supply, elasticity, price determination, costs, income distribution, market structures, trade, and other related social, economic issues. ECON 201, ECON 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

ECON 204P Principles Of Economics
The course will combine macro and micro principles of economics. Credit will not be given for both macro (ECON 201 and ECON 204) or for both micro (ECON 202 and ECON 204) towards a degree. The course will be offered over two nights a week (2 1/2 hr/class) and two weekends. Offered: Summer.

ECON 301P Macroeconomic Analysis
The economic system as a whole and the ways in which its functioning is affected by the behavior of the interdependent sectors of which it is composed. Major factors affecting national income; use of sectoral accounts in analyzing general economic prospects.

ECON 302P Microeconomic Analysis
Functioning of the individual enterprise and households. Problems confronting business enterprises operating under different types of market situations; influence of the prices factors of production on methods of production; effects that changes in income levels and in relative prices have on sales of different types of goods and services. Every semester.

ECON 331P Money And Banking
A study of the structure, operations and problems of banks and other financial institutions with emphasis on their macroeconomic performance. The importance of banking in the financial system and the influence of Federal Reserve monetary policies are also studied. Offered: Fall.

ECON 353 Financial Analysis And The Economy
This course examines techniques of financial evaluation used by individuals, corporate managers, and portfolio analysts. Focus of the course will be on the interaction of the mechanics of analytical methods and economic activity. Topics covered will include individual portfolio building, asset evaluation, and financial market theory. Prerequisites: ECON 201 and ECON 202. Offered: Winter odd years.

ECON 366 Art Markets
An economic analysis of the development of art markets and the issue of government involvement in the arts. Prerequisite: ECON 202 is recommended, but not required.

ECON 486 Labor Economics
An examination of the theories of wage determination, the economic effects of wage determination upon the wage structure, the distribution of national income, employment, and an introduction to collective bargaining. Prerequisite: ECON 302. On request.

PACE - History (HISTORY)
HISTORY 330PW The Works Of Western Man
In the period 1750-1987, the nations bordering the Atlantic Ocean, largely relying on their technological advances, became world powers. This course, relying on analysis of films plus required readings, will survey the energy sources employed, the tools developed, and the regimes of the workplace which led to this dominance. Grades will be assigned to three types of exercises: frequent quizzes, a mini-project in historical research and a book critique of a piece of fiction. Prerequisite: Successful completion of the WEPT (effective FS93).

HISTORY 330PW The Works Of Western Man
In the period 1750-1987, the nations bordering the Atlantic Ocean, largely relying on their technological advances, became world powers. This course, relying on analysis of films plus required readings, will survey the energy sources employed, the tools developed, and the regimes of the workplace which led to this dominance. Grades will be assigned to three types of exercises: frequent quizzes, a mini-project in historical research and a book critique of a piece of fiction. Prerequisite: Successful completion of the WEPT (effective FS93).

HISTORY 331P America In The Machine Age
The United States has experienced repeated waves of technological advancements. This course will largely focus on industrialization in the 19th century as well as consumer society of our own era. How Americans produced goods and what were the dynamics of the market place are two central themes. Required readings will be complemented by films and presentations
from resource persons throughout Kansas City. A research project and three tests are required.

**HISTORY 332P** The City: Past And Present
This course treats the built environment, especially the urban infrastructure. Both systems and structures of the cityscape are examined from a historical perspective, with three metropolises (Rome, Paris, New York) and Kansas City serving as case studies. The technical areas include shelter, public buildings, transportation, water supply, power, waste management, communications, and the like. Projects are included. Offered: Every 2 years.

**HISTORY 400Z** Special Studies

**HISTORY 470P** Ancient World: The Social History Of The Ancient World
The optional four-credit-hour component (modified independent study) will concern the social aspects of these civilizations, i.e., their daily lives. Readings and audiovisual aids will be used to help the student who will be expected to choose one aspect of each civilization, such as women, slavery, merchants, education, medicine, etc., and write a five-page paper about that topic for each period, i.e., Mesopotamia, Egypt, Greece and Rome.

**HISTORY 471P** Ancient World: The Political Structure Of The Ancient World
The four-hour lecture period on weeknights will emphasize the historical aspects of the ancient civilizations. The lectures will be chronologically organized to focus upon their evolution from their rise to their collapse.

**HISTORY 472P** Ancient World: The Cul/Intellectual Dimension Of Ancient Civi
The four weekend periods will provide the students with a general picture of these civilizations: society, religion, economics, and culture (w.f., arts, literature, philosophy, science, etc.). Guest lecturers, slides, films and video cassettes will be used to introduce the varied aspects of these ancient peoples.

**PACE - Humanities (HMNTY)**

**HMNTY 104P** Indep Study/Tutorial: Spec Applications: Themes Of Individuality
In this course students apply knowledge and skills gained in the weekend and weekday courses to four supervised and well delineated study projects relating to the major themes of Block II, and involving various art forms and presentation media.

**HMNTY 105P** Literature, Composition & Critical Thinking: Individual & Society
This course develops facility in writing, reading and critical thinking through numerous writing and critical thinking activities, papers and readings focused around the topic of the relationship of the individual and society. This course accomplishes the purposes and fulfills the requirement of the first semester of freshman English.

**HMNTY 106P** The Individual In Literature, Philosophy And Art
This weekend course acquaints students with classic works of literature, philosophy and the fine arts, as well as the methodologies of the humanities, by means of an historical and systematic analysis of the developmental stages of individuality from the classical period to the contemporary era.

**HMNTY 201P** The Many Lives Of Dr. Faust
This course examines Faust as dealing with a search for knowledge from Byzantium to modern Europe and America. This approach covers such topics as the limits of power, the choice between good and evil, and the limits of human awareness. The course will present this Faust legend in various artistic forms, by allowing the student to experience this "'myth'" through art, drama, literature and culture. Offered: Winter.

**HMNTY 202P** The Meaning Of The American Experience
This course meets the College requirement for ENGLISH 225. Integrated with the other courses in the block, its aim is to help students to become informed writers on the topics of American myths. The first part of the course will require students to write personal response papers; the second half will involve library research that can be synthesized into research papers. Offered: Winter.

**HMNTY 203P** American Dreams: Four Major American Myths
This course examines several meanings of four major American myths: the Puritan myth, the myth of the land, the myth of individualism and the myth of the machine. Students will examine works of literature, art, and film in order to comprehend the meaning of myth in their own culture and grasp the way in which cultural artifacts shape and express current values in American life. The course will take special note of the Faust myth's relevance in American culture. Prerequisites: Concurrent enrollment in Humanities 202P. Offered: Winter.
HMNTY 320P International Cultures
At the beginning of the new Millennium, this PACE course should heighten students' awareness of the values, esthetics and historical baggage of a particular culture as it introduces them to the dynamics of a rapidly changing world. Literature and scholarly texts will be in the in-roads to the culture and will deepen the students' insight into contemporary events. Course will vary with geographical area of study.

HMNTY 320P International Cultures
At the beginning of the new Millennium, this PACE course should heighten students' awareness of the values, esthetics and historical baggage of a particular culture as it introduces them to the dynamics of a rapidly changing world. Literature and scholarly texts will be in the in-roads to the culture and will deepen the students' insight into contemporary events. Course will vary with geographical area of study.

HMNTY 340PW The World Of Advertising
This course will present a broad overview of advertising literature. Students will be given some idea of the issues inherent in the world of advertising, procedures for running an ad campaign, and the role of persuasive writing and graphic design. As projects to accompany the historical and theoretical aspects of advertising, students will design a commercial or an ad campaign. The course will emphasize critical thinking, ethical issues, writing and speaking. Prerequisite: Two semesters of composition and successful completion of the WEPT (effective FS93).

HMNTY 375P Research In Women's Culture
Independent Study: Each student, with an instructor, will develop a research topic of personal or professional interest related to PACE 376P or PACE 377P and produce appropriate writing on the topic.

HMNTY 375P Research In Women's Culture
Independent Study: Each student, with an instructor, will develop a research topic of personal or professional interest related to PACE 376P or PACE 377P and produce appropriate writing on the topic.

HMNTY 376P Textual Representation Of Feminine
Focusing on the roles women have played in literature, as characters, as readers, and as writers, students will read, write about, and discuss short fiction, novels, and feminist literary theory. This course explores the ways in which both the choice of subject matter and the method of presentation differ in female-written and male-written texts, the ways in which women have been portrayed in literature by women writers and by men writers, and the ways in which ethnicity affects both subject matter and writing style in women's writing.

HMNTY 377P Growing Up Female With Mass Media
The purpose of this course is to examine women and women's issues in American film, media and culture. Focusing on the construction of women's images in the information age, the course follows the rise of feminism, backlash and ""post feminism"" to the position of the contemporary woman, providing a historical context for popular culture.

HMNTY 401PW The Culture Of The Working Class: Independent Study
This course, the independent study component of the labor and economics block, will employ a variety of cultural media which illustrate some of the issues covered in the weekend and evening courses. ""The Culture of the Working Class"" will show how literature, art, music and film have reflected and/or influenced the labor movement. Students will read novels, short stories and poems, view movies and works of art which address problems of the working class, both in Western Europe and the United States, from the late 1800's to the present. The work done will be validated through written work by the student. Prerequisite: Successful completion of the WEPT (effective FS93).

HMNTY 404PW Professional Communication
In this course students will study formats for various types of technical reports, from resumes to completion reports, most of which will use as content research projects assigned in the independent study segment. Students will also study techniques for presenting material orally, from small group communication to formal presentations of longer technical reports, complete with audio-visual aids. In both written reports and oral communication, students will learn to consider a variety of audiences. The course will have texts and will be team-taught. The writing element will provide another option for PACE students to fulfill the new junior/senior writing requirement. Prerequisite: Successful completion of the WEPT (effective FS93).

HMNTY 408P Images Of Aging In Literature
This one credit hour course will give students an opportunity to examine human attitudes towards the changes that occur in later life viewing them through fictional characters and events. It is one thing to learn the facts of the aging process and aging in society, but quite another to examine attitudes and feelings about such issues subjectively, through the eyes of one facing them. Through reading literature about older people and their concerns, discussing it and writing papers about it, students should develop a truer perspective about that portion of their own lives and alter their attitudes towards older people in their present culture. Though this is a one-credit-hour course, discussions and papers may also draw from readings done in the Independent
HMNTY 410PW  Turning Life Into Stories
This course will take a factual approach to creative prose writing, including both artistic nonfiction and fiction in various forms. The instructor will describe a form, suggest ways it might be written, and illustrate the form with examples of his own work and that of other writers. Student papers will be critiqued in writing by the instructor. Students will also read much of their work to the class, which will operate as a writing workshop. Prerequisite: ENGLISH 110 & ENGLISH 225 (or equivalents) and successful completion of the WEPT (effective FS93).

HMNTY 452  Images Of The Family In Art And Literature
An application of the skills and knowledge gained from the companion weekend and/or weekday courses in this block by means of the instructor-approved and guide independent study projects of the student's own individual or small group choice, focusing on images of the family in literature and art. Each student must select and present four projects (one on each of the following faith cultures-Christianity/Judaism, Islam, and one on a topic of their choice) in written, oral and/or audio/visual media. Students meet in groups and individual sessions with the instructor of this block.

HMNTY 461  Interpreting Past And Present Rhetorical Practices
The purpose of this course is to examine what rhetoric is and how it has been (and is currently) used to influence what we believe, practice and value as individuals and as a society. Beginning with the classical period, then moving chronologically to present day rhetorical theories, students will analyze the ways in which rhetoric has both influenced and been influenced by its historical context. Course grades will be determined by four examinations, an 8-10 page course paper, and an oral presentation of the work of one rhetorician.

HMNTY 462  Analyzing Modern Discourse Communities
In this course, students will learn how to critically examine the rhetorical effects of political, legal, journalistic, literary documents. Students will also learn how to more effectively argue by mastering particular rhetorical strategies. There will be four written projects in this course: a summary/research assignment, a review assignment, an analysis assignment and an argument assignment.

HMNTY 490P  Perceptions & Images Of Disabilities In Literature And Film
This course combines classroom discussion of selected films and literature and independent study. Students will study films and selections from literature to develop an understanding and awareness of the social, economic and political aspects of disability as conveyed through popular culture. Students will also apply research, observation and writing skills to gain awareness and insights regarding disabilities, through working on an individual or team project. The project will further the understanding of disabilities and how various social, psychological and environmental conditions may affect people with disabilities and their families.

PACE - Integrated Studies (INTGR)
INTGR 401P  The Creative Source:Concepts And Actions
A survey of the intellectual history of our culture highlighting the contributions of important philosophers, theologians, scientists, political figures, artists and musicians from antiquity through the contemporary period. Prerequisite: Senior standing.

INTGR 402P  Turning Points In The History Of Ideas
Focused discussions on specific aspects within the history of ideas in five major eras (Antiquity, the Middle Ages, the Renaissance, the Romantic Age and the 20th-century), Prerequisite: Senior standing.

INTGR 403P  Major Intellectual Developments In Western History
Major developments within the history of ideas in philosophy (and religion), the arts, political thought, and the history of science. Prerequisite: Senior standing.

INTGR 425P  Integrative Seminar In Disability Studies
The Integrative Seminar in Disability Studies provides students the venue to focus and synthesize their knowledge of disability within an academic field. Required for Interdisciplinary Certificate in Disability Studies. Prerequisites: HMNTY 490P, PSYCH 406P and PSYCH 407P Offered: On Demand

INTGR 430P  Development Disabilities: Partners In Policymaking
Participants, selected through an application process conducted by the Missouri Planning Council for Developmental Disabilities, attend eight two-day sessions over a period of eight months. Partners meet with and learn from nationally known speakers, gaining state of the art information on critical issues, including state and federal issues. Partners develop skills that will enable them to form productive partnerships to influence police and law. Prerequisite: Selection by Missouri Planning Council Offered: TBD
PACE - Psychology (PSYCH)

PSYCH 270P Compulsive Gambling And Other Addictions
Course will focus on compulsive gambling and the psychology of addiction. Alcohol, drug, food and sex addiction will also be explored. After attending this course, the student will be able to understand the problem gambling continuum, the phases of the problem gambler and how this addiction affects the family.

PSYCH 407P Developmental Disabilities And Community Life
Focus is on developmental disabilities in community life and interdisciplinary process as a means of coordinating services and supports in community settings. Students will learn about specific disciplines and professions and how they must work together in the community. Topics include the State developmental disabilities network and service system, the principles of person-centered planning, the effects of severe disability on families, and the dynamics surrounding community inclusion of persons with severe disabilities.

PSYCH 418 Brain and Behavior I
Introduction to the neural bases of human behavior, including movement, learning and memory, sensation and perception, emotion, cognition, psychological, and neurological disorders. Prerequisite: PSYCH 302WI.

PSYCH 490P Perceptions & Images Of Disabilities In Literature And Film
This course combines classroom discussion of selected films and literature and independent study. Students will study films and selections from literature to develop an understanding and awareness of the social, economic and political aspects of disability as conveyed through popular culture. Students will also apply research, observation and writing skills to gain awareness and insights regarding disabilities, through working on an individual or team project. The project will further the understanding of disabilities and how various social, psychological and environmental conditions may affect people with disabilities and their families.

PACE - Political Science (POL-SCI)

POL-SCI 347P Crime and Civil Liberties
A study of civil liberties in American society, emphasizing their role in the criminal and legal process. Topics include issues related to the Fourth, Fifth, Sixth, Eighth and 14th amendments. Other topics to be covered will depend on class interest and current events. Part of PACE Block -- Justice and Society.

POL-SCI 347P Crime and Civil Liberties
A study of civil liberties in American society, emphasizing their role in the criminal and legal process. Topics include issues related to the Fourth, Fifth, Sixth, Eighth and 14th amendments. Other topics to be covered will depend on class interest and current events. Part of PACE Block -- Justice and Society.

POL-SCI 358 Global Political And Social Issues
This course is designed to afford the student with an overview of important global and regional challenges associated with the emerging 21st century. Hence, there are three objectives: (1) gain an understanding of the facts and complexities of the selected issues within the framework of globilization; (2) describe and explain difficulties in formulating political/ policy consensus aimed at resolving these issues; (3) considering both the factual complexities and difficulties in formulating policy; identify future trends related to major global challenges.

POL-SCI 406P Political Leadership
This weekend course will examine theories, institutions and styles of political leadership; analyze recruitment and selection methods; and study popular perceptions of such leaders. Using film, fiction and materials from political science, this course will culminate in a look at U.S. presidents and the presidency in the 20th century. Prerequisites: Social Science PACE 102P and 103P, or POL-SCI 210 or equivalent; concurrent enrollment in POL-SCI 409P for those in the PACE Program or in the B.L.A. degree program. For other students, the consent of the instructor is required. Students who have credit for POL-SCI 406A or its equivalent may not enroll in this course.

POL-SCI 407P Politics Of Representation
A study of legislative institutions, procedures and behaviors in the U.S. Congress that raises practical as well as theoretical questions of political representation in modern society. This course will be presented by video cassette and will be integrated with POL-SCI 406P and POL-SCI 409P. Prerequisites: Social Science PACE 102P and 103P or POL-SCI 210 or equivalent; concurrent enrollment in POL-SCI 406P and POL-SCI 409P.

POL-SCI 409P Bureaucratic Politics
This weeknight course will examine the emergence of bureaucracies as the modern method of collective problem solving. In the U.S. political context, this involves the dynamic interplay of rational choice, due process and pluralistic politics. The transitions from limited to positive government and then to the current ethos of deregulation will be studied.
POL-SCI 435P Politics Of The Environment
A survey of the political aspects of environmental issues. The course poses the problems of environmental damage and examines actual and proposed policies aimed at addressing them. The course content is the same as POL-SCI 435 except additional reading and writing will be required commensurate with a 4 credit hour course.

PACE - Social Science (SOC-SCI)
SOC-SCI 210P Foundations Of Social Science
An application of salient principles, facts and methods of social sciences to study of origins and nature of social institutions; problems of emotional adjustment and vocational choice; analysis of contemporary social, legal and economic trends affecting values, conception of freedom and of social power, and political organization.

SOC-SCI 305P Economic Principles And Applications Of Accounting
In this one-hour course, students will use computers to apply accounting principles and to analyze annual reports of corporations. The course will be taught during one hour of a four-hour weeknight course, with ACCTNG 201 being taught during the other three hours. It should be taken concurrently with ACCTNG 201 and with the Independent Study course, SOC-SCI 403P, Business Administration Applications. On a two-year rotation.

SOC-SCI 355P The Environmental Movement: Roots And Actions
A multi-disciplinary course synergizing case studies from history, political science, environmental management, and urban planning to develop a deep understanding of current environmental issues. We will probe such issues as the Concept of Nature and Environmental aesthetics Agriculture and the Environment, Energy and the Environment, Developing the "Built Environment". Environmental Costs of Industrialism, the Birth of the Environmental Movement, Environmental Politics, Environmental Justice and many other topics.

SOC-SCI 359P Technology Policies In Hospitality
This course will examine policies and practices of technology in hospitality and the impact of technology on decision making in the industry. Special attention will be given to the relationship between technology and organizational resources, examining the future development of policies and practices. Prerequisites: None. Offered: Any Semester.

SOC-SCI 364PW Contemporary Industrial Society
This course examines the historical theoretical and behavioral foundations of the industrial economy of the U.S. Particular emphasis is placed on technological change, the culture of modern corporations, strategic planning and the contemporary environment of business enterprise (legal, social, environmental and economic). The major institutions of business structure of the modern corporation are covered. Prerequisites: ECON 201,ECON 202 and successful completion of WEPT Test. Offered: Fall.

SOC-SCI 375P Contemporary Issues In The Service Industry
This course will allow students to undertake in-depth research of current issues important to the service industry. Focus will be placed on understanding theoretical principles and their impact on management behavior and decision making. Issues may include; the evolving technology of the industry, the impact of the industry on national employment issues, and the social impact of the industry on class and racial issues. This course is offered as an independent study and must be taken in conjunction with ECON 323P: Administration in the Service Industry. Prerequisites: None. Offered: Any Semester.

SOC-SCI 395B The Economics Of The Law
See ECON 395B. Prerequisites: ECON 201 and ECON 202. Offered: Fall.

SOC-SCI 395C Economics Of Energy
See ECON 395C. Offered: Fall.

SOC-SCI 395G Economics Of Poverty
See ECON 395G. Offered: Fall.

SOC-SCI 403P Industrial Organization Applications
The students will read books and business journals and reflect, in written form, on topics related to the organizational environment. Students will also research and prepare technical reports on specific organizational issues. Validation will be coordinated with the technical writing component of the block. Offered: Fall.
coordinated with the technical writing component of the block. Offered: Fall

**SOC-SCI 411P Aging In American Society: Past And Present**
Modern views of aging are often contrasted with views of aging in earlier times. The popular mythology suggests that the position of the older adult has fallen from a place of high status and respect. Exploring the myths and rhetoric, this introduction to the field of social gerontology examines aging in America as grounded in the nation's history and a variety of sociocultural contexts.

**SOC-SCI 438P Labor History & Economic Policy**
Analysis of the confluence of political and economic behavior the economics of collective action. Prerequisites: ECON 301 and ECON 302.

**SOC-SCI 456P In-Depth Country Study**
Students enrolled in this section will choose a country in Latin America (not their country of origin, if applicable) and prepare a country study. Students will receive a general reading list (which has to be incorporated) and, if desired, suggestions about country-specific readings. The studies should be founded in cultural anthropology; i.e., they should be holistic in integrating all population groups of the country, and they should be integrated in treating the country as an inter-connected, but open, system.

**SOC-SCI 457P First Nations And Survival In Latin America**
This course examines the history of a specific country, historical and contemporary issues (such as genocide, land use, economic and political marginalization and independence movements.) The course focuses on history and experience as it is constructed by and impacts native people. Special consideration is given to women and gender constructs in the native societies and the impact of a dominant European patriarchy.

**SOC-SCI 458P Women, Men And Development In A Cultural Context**
Students will explore two main areas of social scientific discourse in Latin America: theories of development and marginalization; and feminist interpretation of and responses to development. We will explore how the phases of political and economic history are reflected in ideas about development, dependency, and women's issues. A large part of the class will be concerned with the increasingly important issue of street children in Latin America and other minority issues. Offered: Winter

**SOC-SCI 465P Human Resources In The Service Industry**
This course will trace the historical development, and examine current policies and procedures of human resources in service organizations. Special emphasis will be placed on understanding the evolving importance of employees in developing systems to meet operational goals. Management and labor perspectives on legal employment issues, compensations issues, and team development strategies will be examined. Prerequisites: None. Offered: Any Semester.

**SOC-SCI 489P Internship In Hospitality Studies**
This course will allow students to demonstrate mastery of acquired theories and principles in conjunction with a working hospitality organization. Emphasis will be placed on directing research and readings to enhance individual understanding or concepts. Students will work with the Hospitality Studies Coordinator on exact course requirements. Prerequisites: Permission of instructor. Offered: Every Semester.

**SOC-SCI 490C Readings In Labor Economics**
See ECON 490C. Prerequisites: ECON 201 and ECON 202. Offered: Winter.

**PACE - Sociology (SOCIOL)**
**SOCIOL 381P Everyday Masculinities**
This independent study course is designed to encourage students to put into play their study of and growing understanding of men's lives. Each student will design and carry out an independent study/research project that will take into account (critically)
the experience of at least three men in their immediate surroundings. Ethnographic methods (observation, field-note/interview and transcription strategies, write-up, etc.) will be covered to facilitate the student's successful completion of their project. The project will be broken down into phases to insure timely progress throughout the semester. Restrictions: Concurrent enrollment in Meanings of Masculinity required.

**PACE - Natural Science (NAT-SCI)**

**NAT-SCI 101P Changing Life On Earth**
This course presents an overview of issues relating to our ever changing world. It is research oriented with papers required on topics dealing with behavior, environmental issues, and aspects of evolution. Prerequisites: Concurrent enrollment with NAT-SCI 102P.

**NAT-SCI 102P Fundamentals Of Life Science**
This course emphasizes the essential properties of biological systems through four major themes: diversity, the chemical and physical basis of life, continuity, and the organismal nature of life. Prerequisite: Concurrent enrollment in NAT-SCI 103P. As needed.

**NAT-SCI 103P Applications Of Life Sciences**
This course is designed to provide students with laboratory exercises, field trips, films and discussions that help apply biological principles from 102P. New concepts are introduced throughout the course. Prerequisite: Concurrent enrollment in NAT-SCI 102P. As needed.

**NAT-SCI 308P Physical Measurements**
An introduction to metrology, this course will emphasize physical measurements in technology and trade as well as in daily life. Material will include the historical development of measurement units, from cubits to meters, especially since 1960; gravitational versus absolute systems; the International System of Units (SI); organizations, treaties and statutes; accuracy vs. precision; and numerical values: conventions, conversions and rounding. Student work will involve laboratory exercises, exams, practicum work and homework assignments (brief essays and/or problem solutions). Prerequisite: MATH 110 or MATH 150 (or equivalent) Summer.

**NAT-SCI 375P Nature Of Science**
Selected topics from the natural sciences. Provides students fundamental principles and concepts of various physical and mathematical sciences. Lectures, demonstrations and discussions provide an integrated approach to the natural sciences.

**NAT-SCI 425P Introduction To Quantitative Methods**
Topics addressed are the scientific approach to study of behavior (goals of science, research terminology, variables, distributions, measures of central tendency, confidence intervals, use of research methods and ethics in research), experimental design (validity, reliability, design and sampling techniques), and interpretation of research results. Course includes in-class computer data entry and analysis. Prerequisites: Intro to computers and MATH 110 or MATH 116

**NAT-SCI 430PC CC: Biological And Ethical Issues In Aging**
This course is designed to provide both a disciplinary and interdisciplinary study of the biological, philosophical, and ethical foundations and principles underlying the phenomenon of aging on an individual and societal level. Various physiological, neurological, anatomical, and psychological processes and changes characteristic of the development occurring during the aging process will be identified, studied, and discussed. The philosophical and specifically ethical issues associated traditionally with aging will be re-examined and analyzed in terms of scientific, technological, cultural, sociological, economic, and legal changes in knowledge and attitudes. PREREQUISITE: BIOLOGY 102 or equivalent. This course is also cross-listed as PHILOS 401PC.

**PACE - Interdisciplinary Studies (INT-DISC)**

**INT-DISC 201P Energy, Technology And Society**
Independent study television course. Technology is examined as a human activity that reflects society's needs and values. The social implications of technology are explored and the concept of technological systems is developed. The history and evolution of technology is studied, particularly as it has influenced life and planning for the future. Prerequisites: Concurrent enrollment in INT-DISC 202P and INT-DISC 203P.

**INT-DISC 202P Energy Science**
Weeknight course. Fundamental physical principles and concepts concerning energy sources, energy production, energy use and energy reserves will be studied. Emphasis will be placed on the physics of energy including chemical, electrical, mechanical, nuclear, solar and thermal energy. Prerequisite: Concurrent enrollment in INT-DISC 201P and INT-DISC 203P.
INT-DISC 203P Social, Economic And Political Influences On Energy
Weekend course. Some of the most important determinants of uses of energy and technology are social rather than physical. This course will consider such influences as energy conservation, the psychology of decision making, the impact of our organization on the means of production and our ability to utilize available energy to satisfy human needs, the human costs of high technology with respect to basic biological requirements and also with respect to higher human needs. Finally, alternative social organizations will be studied. Prerequisite: Concurrent enrollment in INT-DISC 201P and INT-DISC 202P.

INT-DISC 204P Work, Labor And Society
This course focuses on work, labor and society. Agrarian societies and the rise of industrialism are studied. Emphasis is placed upon understanding the role of the worker in today's society. Prerequisites: Concurrent enrollment in Social Science and HMNTY 202P and HMNTY 203P.

INT-DISC 205P Liberalism And The Technological Society
Weeknight course. The philosophy of liberalism and the reactions against that philosophy will be studied. We will examine the factors that have led to the rise of industrialism and technology and study the ways in which they have affected other aspects of the society. Students will be required to write a term paper. Emphasis will be placed on research and bibliographic methodology. Prerequisites: Concurrent enrollment in Social Science and HMNTY 203P is required.

INT-DISC 206P Political And Social Aspects Of A Technological Society
Weekend course. Industrialism has changed our way of looking at ourselves and the world. We will examine the new conception of the individual that arose with industrial society and will focus on some of the problems and prospects that have been associated with it. Social Darwinism, unions, and various utopian/anti-utopian theories will be among the ideas studied. Prerequisite: Concurrent enrollment in Social Sciences and HMNTY 202.

INT-DISC 310P Global Political And Social Issues
This course will give students a broad overview of a particular culture, region or ethnic group's political and social issues within the context of contemporary global challenges. Major topics include politics, economics, environmental and international concerns appropriate to understanding a cross section of traditions and values of a variety of social strata within a designated area of study.

INT-DISC 380P People With Special Needs: Education Planning
This course will address educational and psychological assessment strategies that result in a diagnosis of disability. Various specific disabilities and legal parameters for public education of people with disabilities will be discussed. Students will learn how to read and understand various educational and psychological assessment reports and will become knowledgeable about how to access community supports and services to address special needs in an education setting. By the end of the course students will have created a personal notebook of educational planning and accommodations for use as a resource for parents, teachers, or students in educational settings. Offered: Fall or Winter

INT-DISC 381P People With Special Needs: Career Exploration
This course will address the issues that arise in career exploration and planning for people with a disability diagnosis. Students will become familiar with the philosophy of community inclusion and will learn how to plan based upon the unique strengths and interest of the individual. Career exploration tools will be explored in class and as assigned, and students will create a personal notebook to be used as a resource tool of accommodation materials and aides. Offered: Fall or Winter

INT-DISC 382P People With Special Needs: Disability Service Settings
Independent study course: Students will meet at specific times as a group with the instructor, will write a term paper, and complete a 20 hour practicum in a pre-approved disability service setting. Offered: Fall or Winter

INT-DISC 401P The Natural Life Cycle
Independent study Television course. Students will be exposed to some of the latest concepts and research related to the natural life cycle. The various tapes to be viewed in this class will focus on the birth process, the maturation of the individual, and the abnormalities that can occur through various diseases and death. The tapes will have a predominantly biological orientation, although there will be a few tapes that provide artistic insight into the various stages of the life process. Prerequisites: Senior standing and concurrent enrollment in INT-DISC 402P and INT-DISC 403P.

INT-DISC 402P Literature And Life Sciences
This integrated weeknight course attempts to provide students with an overview of the relationship between biology and literature. Other disciplines also will be discussed, but these two will be the dominant ones presented. The life cycle of the human organism will provide the structure for this course. This process will then be subdivided into various substrata focusing on such aspects as childhood development, nutrition, the cardiovascular system, and the nervous system. Each of these aspects will also be examined from an artistic point of view. Prerequisites: Senior standing and concurrent enrollment in INT-DISCy 403P.
INT-DISC 403P Stages Of Growth
This integrated weekend course will attempt to offer the student both laboratory experiences and cinematic works that focus on the life-cycle process. Each of the weekend sections will be devoted to a particular stage of development, moving from conception to birth and childhood, to maturation and death. Prerequisites: Senior standing and concurrent enrollment in INT-DISC 402P.

INT-DISC 420P Brain And Behavior
The class will explore current and sometimes contradictory theories and evidence for the interaction of biological and psychosocial processes in such areas as gender differences, the experience of pain, addictive behaviors, and diseases such as depression, heart attack, rheumatoid arthritis and anorexia. Students and instructor will also briefly examine the organization of the triune brain, neurologic accidents, the range of tools currently used in diagnosis and treatment of mind-body diseases, and raise some of the bioethical issues these problems engender. Methods will include lecture, discussion, readings, films, oral class presentations, papers and exams. Prerequisite: One course in biology and/or psychology. Summer

INT-DISC 482P The Meanings Of Masculinity In Contemporary U.S. Culture
Topics include: Perspectives on Masculinity; Boyhood; Collegiate Masculinities: Privilege and Peril; Men and Work; Men and Health: Body & Mind; Men in Relationships; Male Sexualities; Men in Families; Masculinities in the Media; Men, Movements, and the Future. Small and large group discussions are anticipated in the classroom. Outside of the classroom, students will be expected to complete a series of assignments that are relevant to the topics at hand. This course would ideally incorporate UMKC faculty/staff and individuals/groups outside of the university who have completed research/work that seeks to understand men's lives better.

INT-DISC 483P Artful Man Embodied: Cultural Icons Of Masculinity
This course will examine a variety of mediums used to "embody" meanings of masculinity (with special attention paid to shifting settings for one media source can alter its meaning drastically simple by being located in a different venue and/or time). This course will incorporate tours of, and works from, the Nelson-Atkins and Kemper Museums. Images by/of "men" to be examined include those found in the work of selected "masculine icon" authors; those found in popular culture; and those found in the everyday (seemingly mundane) worlds of family, work, and medicine. As the title of the course implies, students will explore historical ideas about bodies/embodiment (be they scientific, religious, social, etc.) into their image exploration. Restrictions: Enrollment in Meanings of Masculinity recommended to take the course.

PACE - Physical Science (PHY-SCI)
PHY-SCI 301P Scientific Approaches To The Physical Worlds
Applications of chemistry, earth science and astronomy in industry and to our daily environment. Particular emphasis is placed on the technological advancements made in these areas of natural science and on their relationship to our standard of living.

PHY-SCI 302P Concepts Of Chemistry, Earth Sciences And Astronomy
Basic principles of chemistry, earth sciences and astronomy with special emphasis on the earth and its environment.

PHY-SCI 303P Applications Of Physical Science
Laboratory exercise, field experiences, tutorial-type seminars and recitation in elementary chemistry, earth science and astronomy.

PACE - Philosophy (PHILOS)
PHILOS 401PC CC: Biological And Ethical Issues In Aging
This course is designed to provide both a disciplinary and interdisciplinary study of the biological, philosophical, and ethical foundations and principles underlying the phenomenon of aging on an individual and societal level. Various physiological, neurological, anatomical, and psychological processes and changes characteristic of the development occurring during the aging process will be studied, and discussed. The philosophical and specifically ethical issues associated traditionally with aging will be re-examined and analyzed in terms of scientific, technological, cultural, sociological, economic, and legal changes in knowledge and attitudes. Prerequisites: Biology 102 or equivalent. This course is also cross-listed as NAT-SCI 430PC.

Philosophy (PHILOS)
PHILOS 210 Introduction to Philosophy
An introduction to many of the central problems of philosophy. The various dimensions of philosophy are examined as it related to our relationships with each other, our understanding of our world and our understanding of ourselves. Connections between classical philosophers and contemporary issues are explored as philosophy is considered as a deeply personal and also as a social phenomenon.
PHILOS 211 Great Minds
In this course we will explore texts that have played a pivotal role in shaping western intellectual thought and the formation of political and cultural communities up to the present day. We will focus on tracing out their common themes such as political and social organisation, political authority, morality, human nature, and the nature of knowledge. In doing so, our concerns will be twofold. On the one hand we will be trying to understand these texts in their historical and social context, on the other we will analyse and critically discuss the arguments they present and their underlying assumptions thereby learning how to construct well-formed arguments of our own.

PHILOS 221 Contemporary Moral Issues
This course offers a philosophical examination of ethical issues in contemporary society. Topics for discussion include ethical conflicts arising in business and technology, engineering, healthcare, politics, and the environment. Moral concerns addressed may include reproductive rights and technologies, warfare, capital punishment, pornography, privacy, consumerism, euthanasia, sexuality, and animal welfare.

PHILOS 222 Foundations Of Logic
This course introduces the basic concepts and methods of modern logic, beginning with "premise", "inference", "conclusion", and "argument", with emphasis on understanding and reconstructing complex patterns of reasoning, and analysis and construction of valid arguments.

PHILOS 300CK Cluster Course: Controversy And Choice In Life And Science
An examination of advances in the health and life sciences that involve methodological questions about the pursuit and acceptance of theories. Procedures for choosing and conducting research will be analyzed using a model that incorporates existing knowledge. Assessment and management of research are also explored. Participating guests will present solutions derived.

PHILOS 310WI Ancient Philosophy
A survey of the central figures of classical philosophy: the pre-Socratics, Socrates, Plato, Aristotle, the Stoics, the Epicureans and other philosophers of antiquity. The contributions of major philosophers to the development of science, religion, and social and political theories are studied. Prerequisites: PHILOS 210, PHILOS 221, or PHILOS 222, or an equivalent and successful completion of the WEPT Offered: Fall.

PHILOS 315 Logic And Methodology In The Health And Social Sciences
Analysis of the reasoning processes and theory-building procedures specific to the health and social sciences. As its major focus, the course will critically examine the philosophical foundations of the health and social sciences using the case study method. In addition, brief case study analyses of reasoning and theory-construction in the physical sciences will be offered in comparison. Prerequisite: PHILOS 210, PHILOS 222.

PHILOS 320WI History of Modern Philosophy
A survey of the central figures of modern philosophy: Rene Descartes, Baruch Spinoza, G.W. Liebniz, Thomas Hobbes, John Locke, George Berkeley, David Hume and Immanuel Kant. In addition to the philosophical issues of the period, cultural, historical and political matters are considered. A secondary goal is the establishment of the pedigree of contemporary philosophical problems. Prerequisites: PHILOS 210, or PHILOS 222, or an equivalent and successful completion of the WEPT Offered: Winter.

PHILOS 321 Ethics
Attention is given to the nature of ethical ideas and the development and history of ethical theory. Prerequisites: PHILOS 210, PHILOS 221, or PHILOS 222, or with permission of instructor.

PHILOS 322 Philosophy of Literature
A close study of the ancient problems at the intersection of philosophy and literature: what sort of truth, if any, do we find in literature? Does literature have ethical content? What makes a literary text beautiful? How do ""literary"" texts defer from philosophical and other kinds of texts? Should literary texts influence our thinking about politics and other social issues? We will study classic philosophers like Plato, Aristotle, Kierkegaard, and Nietzsche, great literary writers such as Sappho, Dante, Goethe, Dostoeovsky, and Rilke, and harder to categorize figures like Freud. The class will include the study of several recent philosophers who worked specifically on the subject of the ""philosophy of literature,"" such as Bakhtin, Benjamin, Lacan, Szondi.

PHILOS 325 Aesthetics
The basic problems of aesthetics are examined, with special emphasis on the character of the work of art, the aesthetic response of the viewer, the creative process of the artist, and the nature of aesthetic criticism. These topics are discussed in light of conflicting aesthetic theories. Prerequisite: PHILOS 210, PHILOS 222, or equivalent.
PHILOS 326 Epistemology: Theories Of Knowledge
A study of the problems connected with the nature of knowledge and human understanding. Prerequisite: PHILOS 210, 222 or an equivalent.

PHILOS 327 Metaphysics: Theories Of Reality
An investigation of the essential problems regarding the nature of reality in its most general aspects. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 328 Philosophy In The Middle Ages
The history of philosophy from St. Augustine to William of Ockham, including analysis of the relationships of medieval philosophical developments to earlier and later philosophical developments. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 329 American Philosophy
The main trends of American thought are covered, with special emphasis on the philosophies of Peirce, James and Dewey. Prerequisite: PHILOS 210 or PHILOS 215 or PHILOS 222 or an equivalent.

PHILOS 330 19Th-Century Philosophy
Following a review of the influence of Kant on European thought, consideration is given to the German idealists, Comte and Positivism, Mill and Empiricism, British Neo-Hegelianism, the rise of Evolutionary Philosophy and Nietzsche. Prerequisites: PHILOS 210 or PHILOS 215 or PHILOS 222 or an equivalent.

PHILOS 331 Philosophy Of Religion
An analysis of the nature and function of religion and its relation to culture. An examination is made of the basic ideas of religion, and special attention is given to the problems of religion and reality, religion and science, and the changing character of religion in our times. No prerequisites.

PHILOS 332 Existentialism
A study of the development of existentialism. Selections from the works of such thinkers as Kierkegaard, Nietzsche, Sartre, Heidegger, Camus and other related philosophers are considered. Special attention is devoted to the existential movements in literature, social science and medicine. Prerequisite: PHILOS 210, PHILOS 222 or equivalent.

PHILOS 333 Social And Political Philosophy
A consideration of representative views of the place of man in contemporary society. Contributions in psychology, political theory, economics, sociology and anthropology are investigated philosophically with a view toward offering a critical appraisal of the nature of man in the human community. No prerequisites.

PHILOS 334 Philosophy Of Science
A critical analysis of the assumptions, methods and conceptual frameworks of the sciences. The course emphasizes such topics as the influence of theory on observation; the problem of discovery, verification and experimental confirmation; and the relation of scientific language and concepts to ordinary language and beliefs. Prerequisite: PHILOS 222.

PHILOS 334 Philosophy Of Science
A critical analysis of the assumptions, methods and conceptual frameworks of the sciences. The course emphasizes such topics as the influence of theory on observation; the problem of discovery, verification and experimental confirmation; and the relation of scientific language and concepts to ordinary language and beliefs. Prerequisite: PHILOS 222.

PHILOS 335 Philosophy Of Mind
A study of problems arising in connection with such topics as mental phenomena, the relation of mind to body, free will and determinism, the self and personal identity, and ""thinking"" machines. Classical and contemporary treatments of such concepts as ""mind,"" ""intention,"" ""sensation,"" ""perception,"" ""stimulus,"" etc., and their relation to action and behavior are considered. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 336 Philosophy Of Language
A study of the nature and uses of language, with special reference to concepts of meaning, denotation, reference, syntax, name, metaphor, vagueness, and definition. Applications in the fields of psychology, linguistics, anthropology, and literary criticism are
examined. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 337 Philosophy Of History
A discussion of methodological and substantive issues, including the nature of historical explanation, whether history can be a science, and various theories of history such as those of Vico, Hegel, Marx, and Collingwood. Prerequisite: PHILOS 210, PHILOS 215, PHILOS 222 or an equivalent.

PHILOS 338 Philosophy Of Biology
An investigation of methodological and conceptual issues in biology, such as the roles of mechanistic and teleological explanations, reductionism, the nature of evolutionary theories, and the relation between taxonomy and the concept of species. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 338 Philosophy Of Biology
An investigation of methodological and conceptual issues in biology, such as the roles of mechanistic and teleological explanations, reductionism, the nature of evolutionary theories, and the relation between taxonomy and the concept of species. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 340 Philosophy Of Law
An analysis of major philosophies of law, including methods of justifying legal systems through natural law, legal positivism, sociological jurisprudence, theology, etc. Contemporary legal theories are critically analyzed. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 344 Philosophy of Sport
This course uses sports as a point of departure to explore central philosophical themes in metaphysics, epistemology, aesthetics, ethics, and social/political philosophy. Students will explore the concept and role of sports in society from ancient Greece to modern times.

PHILOS 346 Metaphysics and Epistemology
This course is an advanced overview of some central themes in metaphysics and epistemology. Metaphysics focuses on basic questions about the nature of reality. Epistemology is concerned with questions about knowledge and justification. In this class, we will explore a variety of topics (causation, universals, scepticism, induction, etc.) that occupy contemporary philosophers. Prerequisite: Philosophy 222 or consent of the instructor.

PHILOS 350 Scientific Controversies
Students will study particular scientific controversies and the arguments scientists se to defend their own position and attack the positions of their opponents.

PHILOS 360 Current Issues In Bioethics
Alternative approaches to issues such as life and death, human experimentation, the scarcity of resources, contraception, abortion, euthanasia, eugenics, etc. will be discussed critically. Major theories of ethics will be applied to several of the issues in order to have the student develop his or her own approach to ethical decision making in the area of bioethics. No prerequisites.

PHILOS 370 Environmental Ethics And Policy
Various philosophical approaches to issues such as the value of nature, human obligations to non-human animals, species, ecosystems and future generations; environmental justice; restoration; resource use; environmental politics; and the relation between environmental issues, policy and ethics will be discussed critically. Prerequisite: None Offered: Annually Restrictions: None

PHILOS 370 Environmental Ethics And Policy
Various philosophical approaches to issues such as the value of nature, human obligations to non-human animals, species, ecosystems and future generations; environmental justice; restoration; resource use; environmental politics; and the relation between environmental issues, policy and ethics will be discussed critically. Prerequisite: None Offered: Annually Restrictions: None

PHILOS 400 Interdisciplinary Studies: Cluster Course Offerings

PHILOS 400CJ Cluster Course: Aesthetic Issues In The Arts
Specialists in various art forms (e.g., literature, music, painting) will discuss specific artworks from their own perspective as artists and/or critics. This gives the student first-hand experience of how questions dealt with in the philosophy of art arise. Using this common core of examples, philosophical issues such as relevance of artists' intentions to interpretation and evaluation, the nature of aesthetic value, the nature and significance of comedy, and special issues raised by contemporary developments in the
arts are discussed.

PHILOS 400CO Cluster Course: Issues In Death And Dying
A study of the various philosophical dimensions of death and dying in the history of thought from the pre-Socratics through the contemporary existentialist philosophers. Topics to be critically examined will include the ethical, religious and legal implications of the changing definitions of death, active and passive euthanasia, suicide, the ethical aspects of truth telling, and the impact of technological and scientific advancements as they relate to the rights and dignity of the dying patient and survivors as well as special populations such as children and incapacitated persons. The philosophical dimensions of death and dying will include epistemological, metaphysical, ethical and hermeneutic aspects. Alternate theories and approaches to ethical decision making concerning this important aspect of human existence will be presented.

PHILOS 401PC CC: Biological And Ethical Issues In Aging
This course is designed to provide both a disciplinary and interdisciplinary study of the biological, philosophical, and ethical foundations and principles underlying the phenomenon of aging on an individual and societal level. Various physiological, neurological, anatomical, and psychological processes and changes characteristic of the development occurring during the aging process will be studied, and discussed. The philosophical and specifically ethical issues associated traditionally with aging will be re-examined and analyzed in terms of scientific, technological, cultural, sociological, economic, and legal changes in knowledge and attitudes. Prerequisites: Biology 102 or equivalent. This course is also cross-listed as NAT-SCI 430PC.

PHILOS 423 Symbolic Logic
Advanced analysis of deductive procedures; sentential connectives, quantifiers, classes, and relations; the notion of formal system; introduction to axiomatics and metalogical proofs. No prerequisites.

PHILOS 423 Symbolic Logic
Advanced analysis of deductive procedures; sentential connectives, quantifiers, classes, and relations; the notion of formal system; introduction to axiomatics and metalogical proofs. No prerequisites.

PHILOS 424 Art, Aesthetics And Society
This course examines various moral and social issues concerning the arts and the aesthetics of our environment, bringing in case studies of particular artworks. It explores the relationships between aesthetic and moral value in the case of censorship, the effect of images on the public, and the aesthetics of the natural environment. It also looks at how public art is supposed to serve the public, and ethical dilemmas faced by art museums.

PHILOS 425 History Of Aesthetics
An examination of the major thinkers in the history of aesthetics, such as Plato, Aristotle, Kant, Nietzsche, Tolstoy and Croce. The focus will be on how their ideas bear on topics which will interest anyone desiring to understand the origin, nature and value of the arts. Examples of these topics are the relationships among art, knowledge and morality; the natures of originality, creativity and genius; the importance of form, content and expression of emotions; and standards of taste and the claims of criticism. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 430 Plato
Selected dialogues of Plato are studied with a view to understanding Plato's philosophy and its position in the world of Greece and antiquity. Plato's philosophy is also examined with reference to his place in the Western tradition and in modern philosophy. Prerequisite: PHILOS 210,PHILOS 222 or an equivalent.

PHILOS 431 Aristotle
Selected portions of Aristotle's works on logic, metaphysics, science, ethics, politics, and poetics are studied with a view to understanding Aristotle's philosophy and its position in the world of Greece and antiquity. Aristotle's philosophy is examined with reference to its place in the Western tradition and in modern philosophy. Prerequisite: PHILOS 210,PHILOS 222 or an equivalent.

PHILOS 435 Hume
A study of selected writings of David Hume for the purpose of gaining an understanding of the rise of modern empiricism and its influence on contemporary thought. Prerequisite: Philosophy 210 or 215 or 222 or an equivalent. On demand.*

PHILOS 435R The British Tradition In Philosophy
This course is a survey of major British philosophers. Among those who will be studied are Thomas Hobbes, John Locke, David Hume, J.S. Mill, E.H. Bradley, and Bertrand Russell. The influence of British philosophy on other philosophical movements will also be included. Prerequisite: PHILOS 210,PHILOS 215,PHILOS 222 or an equivalent.

PHILOS 436 Kant
A study of selected writings of Immanuel Kant, with particular emphasis on the epistemological, metaphysical and ethical aspects
of Kant's philosophy; an examination of Kant's significance within contemporary thought. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

**PHILOS 445 20Th-Century Philosophy**
A study of the development of philosophy in the 20th-Century, treating such movements as Idealism, Realism, Logical Positivism, Existentialism, Phenomenology, Pragmatism, and Analytic Philosophy. Prerequisite: PHILOS 210 or PHILOS 215 or PHILOS 222.

**PHILOS 448 Recent Ethical Theories**
An analysis and investigation of modern and contemporary ethical theories. Among the theories considered are ethical relativity, the emotive theory, utilitarianism, neo Kantianism, and situation ethics. Prerequisite: PHILOS 321.

**PHILOS 450WI Ethics And Government**
An examination of ethical issues related to government, with the primary focus on national and local governmental bodies in the United States. Ethics in the executive, legislative and judicial branches are examined. Ethical standards for elected officials and appointed public servants are reviewed. Attempts to """"legislate morality"""" are considered. The course includes a historical review of ethics and government and an analysis of the legal implications of legislation regarding ethics in the executive branch. Prerequisite: PHILOS 210 or permission of the instructor. Offered: On demand.

**PHILOS 450WI Ethics And Government**
An examination of ethical issues related to government, with the primary focus on national and local governmental bodies in the United States. Ethics in the executive, legislative and judicial branches are examined. Ethical standards for elected officials and appointed public servants are reviewed. Attempts to """"legislate morality"""" are considered. The course includes a historical review of ethics and government and an analysis of the legal implications of legislation regarding ethics in the executive branch. Prerequisite: PHILOS 210 or permission of the instructor. Offered: On demand.

**PHILOS 480 Selected Topics**
Each time this course is offered a particular philosopher or particular area of philosophy will be the topic of discussion. The course may be repeated for credit when the topic varies. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent, depending on the topic.

**PHILOS 480 Selected Topics**
Each time this course is offered a particular philosopher or particular area of philosophy will be the topic of discussion. The course may be repeated for credit when the topic varies. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent, depending on the topic.

**PHILOS 480A Selected Topics**

**PHILOS 480B Selected Topics**

**PHILOS 480E Selected Topics**

**PHILOS 490 Special Topics And Readings**
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Prerequisite: Philosophy 222, 310, 320, 321 or 423.

**PHILOS 490 Special Topics And Readings**
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Prerequisite: Philosophy 222, 310, 320, 321 or 423.

**PHILOS 490B Special Topics And Readings**
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Prerequisite: Philosophy 222, 310, 320, 321 or 423.

**PHILOS 490F Special Topics and Readings**
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Prerequisite: Philosophy 222, 310, 320, 321 or 423.
Physical Science (PHY-SCI)
PHY-SCI 100PS Special Topics Umkc

PHY-SCI 110 Foundations Of Physical Sciences I
Fundamental principles and concepts of the various physical and mathematical sciences, integrated by the history and philosophy of science. Fall and winter semester.*

PHY-SCI 110L Foundations Of Physical Sciences, Laboratory I
General laboratory and discussion sessions on various topics in the physical and mathematical sciences.

PHY-SCI 110L Foundations Of Physical Sciences, Laboratory I
General laboratory and discussion sessions on various topics in the physical and mathematical sciences.

PHY-SCI 130 Physics of Sports
A course intended for liberal arts students focusing on the physics involved in different sports. Physical laws and technological developments that impact sports will be studied. Cross-listed with Physics 130 and Natural Science 130.

PHY-SCI 140 How Things Work
A course intended for liberal arts students focusing on the principles of operations, histories, and relationships of objects from our daily environment. The areas of investigation include mechanical and thermal objects, electromagnetism, light, special materials and nuclear energy. This course will meet the area requirement for natural sciences. Cross-listed with Physics 140 and Natural Science 140.

PHY-SCI 140L How Things Work Laboratory
Simple experiments based on everyday experiences are analyzed in terms of conceptual physics. The material includes elements of mechanics of a rigid body, elastic properties of matter, fluid dynamics, thermodynamics, electromagnetism, optics and modern physics. The laboratory supplements the Physical Science 140 lecture and must be taken concurrently with the lecture. Cross-listed with Physics 140L and Natural Science 140L.

PHY-SCI 150 Introduction to Astronomy: Gravity and Motion in the Universe
A survey of modern topics in astronomy with an emphasis on developing conceptual models for the fundamental laws of gravity and motion underpinning the structure and evolution of the universe. Topics include lunar phases, eclipses, planetary motion, exoplanets, formation of planetary systems, star formation, supernovae, white dwarfs, neutron stars, black holes, growth of galaxies, dark matter and the expansion of the universe. Cross-listed with PHYSICS 150 and NAT-SCI 150. Prerequisites: None. Offered: Fall

PHY-SCI 153L Introductory Astronomy Laboratory
An introductory exploration of astronomical phenomena and concepts through quantitative laboratory activities requiring data collection, analysis and interpretation. This course is open to students from all majors. Concurrent enrollment in either Phy-Sci 150 or Phy-Sci 155 is encouraged but not required. Cross-listed with Physics 153L and Phy-Sci 153L.

PHY-SCI 153L Introductory Astronomy Laboratory
An introductory exploration of astronomical phenomena and concepts through quantitative laboratory activities requiring data collection, analysis and interpretation. This course is open to students from all majors. Concurrent enrollment in either Phy-Sci 150 or Phy-Sci 155 is encouraged but not required. Cross-listed with Physics 153L and Phy-Sci 153L.

PHY-SCI 155 Introduction to Astronomy: Interaction of Light and Matter in the Universe
A survey of modern topics in astronomy with an emphasis on developing conceptual models for the interactions between light and matter underpinning energetic phenomena in the universe. Topics include telescopes and detectors, solar system exploration, planetary climates, nuclear fusion and chemical enrichment, stars and stellar evolution, interstellar material, pulsars, quasars, gamma ray bursts, the Big Bang and the possibility of life beyond Earth. Cross-listed with PHYSICS 155 and NAT-SCI 155. Prerequisites: None. Offered: Spring

PHY-SCI 171 Physics For Future Presidents
A course intended for liberal arts students focusing on the physics they need to be informed citizens in a democracy. Energy, global warming, terrorism, and health are examples of the important topics examined from the perspective of how science should inform policy.

PHY-SCI 301P Scientific Approaches To The Physical Worlds
Applications of chemistry, earth science and astronomy in industry and to our daily environment. Particular emphasis is placed
on the technological advancements made in these areas of natural science and on their relationship to our standard of living.

**PHY-SCI 302P** Concepts Of Chemistry, Earth Sciences And Astronomy
Basic principles of chemistry, earth sciences and astronomy with special emphasis on the earth and its environment.

**PHY-SCI 303P** Applications Of Physical Science
Laboratory exercise, field experiences, tutorial-type seminars and recitation in elementary chemistry, earth science and astronomy.

**PHY-SCI 410** Selected Topics In Contemporary Science
Selected Topics In Contemporary Science

**PHY-SCI 410A** Selected Topics In Contemporary Science

**PHY-SCI 410B** Selected Topics In Contemporary Science

**PHY-SCI 410C** Selected Topics In Contemporary Science

**PHY-SCI 410P** Selected Topics In Contemporary Science
Selected Topics In Contemporary Science

**PHY-SCI 410PF** Selected Topics In Contemporary Science

**PHY-SCI 435** Selected Topics In The History Of Science
Selected Topics In The History Of Science

**PHY-SCI 435P** Selected Topics In The History Of Science
Selected Topics In The History Of Science

**PHY-SCI 435PF** Selected Topics In The History Of Science

**Physics (PHYSICS)**

**PHYSICS 102** Introduction To Physics
Introduction to fundamental concepts and basic laws of physics with daily life examples. Simple problem solving techniques. This course will meet the area requirements for the natural sciences. Prerequisite(s): None.

**PHYSICS 130** Physics of Sports
A course intended for liberal arts students focusing on the physics involved in different sports. Physical laws and technological developments that impact sports will be studied. Cross-listed with Natural Science 130 and Physical Science 130. Offered: Spring.

**PHYSICS 130** Physics of Sports
A course intended for liberal arts students focusing on the physics involved in different sports. Physical laws and technological developments that impact sports will be studied. Cross-listed with Natural Science 130 and Physical Science 130. Offered: Spring.

**PHYSICS 140** How Things Work
A course intended for liberal arts students focusing on the principles of operations, histories, and relationships of objects from our daily environment. The areas of investigation include mechanical and thermal objects, electromagnetism, light, special materials and nuclear energy. This course will meet the area requirement for natural sciences. Cross-listed with Natural Science 140 and
PHYSICS 140 How Things Work
A course intended for liberal arts students focusing on the principles of operations, histories, and relationships of objects from our daily environment. The areas of investigation include mechanical and thermal objects, electromagnetism, light, special materials and nuclear energy. This course will meet the area requirement for natural sciences. Cross-listed with Natural Science 140 and Physical Science 140. Offered: Fall and Spring.

PHYSICS 140L How Things Work Laboratory
A course intended for liberal arts students focusing on the principles of operations, histories and relationships of objects from our daily environment. The areas of investigation include mechanical and thermal objects, electromagnetism, light, special materials and nuclear energy. This course will meet the area requirement for natural sciences Cross-listed with Natural Science 140L and Physical Science 140L. Offered: Spring.

PHYSICS 150 Introduction To Astronomy: Gravity and Motion in the Universe
A survey of modern topics in astronomy with an emphasis on developing conceptual models for the fundamental laws of gravity and motion underpinning the structure and evolution of the universe. Topics include lunar phases, eclipses, planetary motion, exoplanets, formation of planetary systems, star formation, supernovae, white dwarves, neutron stars, black holes, growth of galaxies, dark matter and the expansion of the universe. Cross-listed with NAT-SCI 150 and PHY-SCI 150. Prerequisites: None. Offered: Fall

PHYSICS 150 Introduction To Astronomy: Gravity and Motion in the Universe
A survey of modern topics in astronomy with an emphasis on developing conceptual models for the fundamental laws of gravity and motion underpinning the structure and evolution of the universe. Topics include lunar phases, eclipses, planetary motion, exoplanets, formation of planetary systems, star formation, supernovae, white dwarves, neutron stars, black holes, growth of galaxies, dark matter and the expansion of the universe. Cross-listed with NAT-SCI 150 and PHY-SCI 150. Prerequisites: None. Offered: Fall

PHYSICS 153L Introductory Astronomy Laboratory
An introductory exploration of astronomical phenomena and concepts through quantitative laboratory activities requiring data collection, analysis and interpretation. This course is open to students from all majors. Concurrent enrollment in either Physics 150 or Physics 155 is encouraged but not required. Cross-listed with Nat-Sci 153L and Phy-Sci 153L.

PHYSICS 155 Introduction to Astronomy: Interaction of Light and Matter in the Universe
A survey of modern topics in astronomy with an emphasis on developing conceptual models for the interactions between light and matter underpinning energetic phenomena in the universe. Topics include telescopes and detectors, solar system exploration, planetary climates, nuclear fusion and chemical enrichment, stars and stellar evolution, interstellar material, pulsars, quasars, gamma ray bursts, the Big Bang and the possibility of life beyond Earth. Cross-listed with NAT-SCI 155 and PHY-SCI 155. Prerequisites: None. Offered: Spring

PHYSICS 160 Vision and Imaging: From Light to Electrons
This course is intended for non-Physics majors who wish to learn about recent development in the field of physics. Students will explore light and electrons and learn how they are used to visualize nature from microscopic to macroscopic scales. The underlying physics principles in various imaging techniques and the concept of optics will be explained. Intriguing images will be shown and interpreted, to demonstrate that physics is fascinating and has great impact on our lives. No specific mathematics is required for taking this course. This course will meet the area requirements for the natural sciences.

PHYSICS 171 Physics for Future Presidents
A course intended for liberal arts students focusing on the physics they need to be informed citizens in a democracy. Energy, global warming, terrorism, and health are examples of the important topics examined from the perspective of how science should
inform policy. Offered: Fall.

**PHYSICS 171** Physics for Future Presidents
A course intended for liberal arts students focusing on the physics they need to be informed citizens in a democracy. Energy, global warming, terrorism, and health are examples of the important topics examined from the perspective of how science should inform policy. Offered: Fall.

**PHYSICS 190** Introduction to High Performance Scientific Computing
A survey course designed for students interested in learning how computer technology and scientific simulations have helped establish the frontiers of modern knowledge. Topics covered are the forms and components of high performance computing hardware; recent progress in software development; data visualization and management; examples of how high performance computing is used in practice; and introductions to some of the most popular programs used by scientists worldwide. Prerequisite: MATH 110 as a CO-requisite.

**PHYSICS 210** General Physics I
Fundamental principles of physics including mechanics, heat and energy, and applications of these principles to different interdisciplinary natural science. Prerequisite or corequisite: College mathematics including trigonometry and algebra or equivalent. Three lectures and one two hour laboratory period per week. Offered: Fall and Spring.

**PHYSICS 220** General Physics II
Fundamental principles of physics including sound, electricity, magnetism, optics, elementary modern physics, and applications of these principles to different interdisciplinary natural science. Prerequisite: PHYSICS 210 or equivalent or consent of instructor. Three lectures and one two hour laboratory period per week. Offered: Fall and Spring.

**PHYSICS 240** Physics For Science And Engineering I
Introduction to mechanics, wave motion and sound and heat and thermodynamics. CoRequisite: Calculus I Offered: Fall and Spring.

**PHYSICS 250** Physics For Science And Engineering II
Introduction to electricity and magnetism, light and optics and modern physics. Prerequisite: Physics for Science and Engineering I. Corequisite: Calculus II or consent of instructor. Four hours lecture and two hours laboratory per week. Offered: Fall and Spring.

**PHYSICS 265L** Astronomy Laboratory
Experiments in planetary motion, apparent solar time, stellar spectra, stellar magnitudes, binary stars, telescopic observations of the sun, moon and planets. Prerequisite: PHYSICS 260 or concurrently and consent of instructor. Offered: On demand.

**PHYSICS 301A** Basic Science Physics
Selected topics from physics; their development and application to everyday problems. Discussion and demonstrations. Intended for teachers in the elementary schools. Offered: On Demand.

**PHYSICS 310** Mechanics I
Advanced statics and dynamics of particles and rigid bodies including gravitation. Prerequisites: One year of physics and calculus
or consent of instructor. Offered: Fall.

**PHYSICS 311** Mechanics II
Continuation of Mechanics I, including mechanics of continuous media, Lagrange's equations, tensor algebra and theory of small vibrations. Prerequisite: Mechanics I or consent of instructor. Offered: Spring.

**PHYSICS 311** Mechanics II
Continuation of Mechanics I, including mechanics of continuous media, Lagrange's equations, tensor algebra and theory of small vibrations. Prerequisite: Mechanics I or consent of instructor. Offered: Spring.

**PHYSICS 330** Methods Of Theoretical Physics I
Introduction to mathematical and numerical methods used in the theoretical modeling of physical systems. Treatments of linear systems in scientific and engineering applications will be emphasized. Prerequisite: Math 250. Offered: Spring.

**PHYSICS 330** Methods Of Theoretical Physics I
Introduction to mathematical and numerical methods used in the theoretical modeling of physical systems. Treatments of linear systems in scientific and engineering applications will be emphasized. Prerequisite: Math 250. Offered: Spring.

**PHYSICS 330** Modern Physics With Engineering Applications
An introduction to the theories that revolutionized science and technology in the twentieth century. Topics include special and general relativity, introductory quantum mechanics and atomic structure. Inventions and applications based on these are also examined. Prerequisites: Math 210 and 220 and either Physics 210 or 240 and 250, or consent of the instructor. Offered: fall.

**PHYSICS 350** Modern Physics With Engineering Applications
An introduction to the theories that revolutionized science and technology in the twentieth century. Topics include special and general relativity, introductory quantum mechanics and atomic structure. Inventions and applications based on these are also examined. Prerequisites: Math 210 and 220 and either Physics 210 or 240 and 250, or consent of the instructor. Offered: fall.

**PHYSICS 355** Stellar Astrophysics
A mathematical and conceptual overview of the observed properties of stars and the fundamental astrophysics of radiative transfer, hydrostatic equilibrium, atomic processes and thermonuclear energy production that govern their structure, atmospheres and remnants. Prerequisites: Physics 240 and 250, Math 210 and Math 220, or consent of the instructor. Offered: Fall Odd Years.

**PHYSICS 356** Galaxies
A mathematical and conceptual overview of the observed properties and astrophysics of galaxies highlighting star formation and evolution, the interstellar medium, the Milky Way, galaxy populations and demographics, active galactic nuclei, and galaxy formation and evolution. Prerequisites: Physics 240 and Physics 250, Math 210 and Math 220, or consent of instructor. Offered: Fall Odd Years.

**PHYSICS 360** Physical Electronics
A study of electron ballistics and electronic emission and conduction in vacuum tubes and in solid state devices. Prerequisites: One year of physics and calculus. Offered: On Demand.

**PHYSICS 365L** Electronic Measurements
Four hours of laboratory work per week. Prerequisite: Physics 360 or consent of the instructor. Offered: On Demand.
PHYSICS 385L. Physics of Electronics
An introduction to the solid state physics of basic electronic components and their operation through both theory and practical labwork. Prerequisites: Completion of PHYSICS 220 or PHYSICS 250. Offered: Spring.

PHYSICS 385L. Physics of Electronics
An introduction to the solid state physics of basic electronic components and their operation through both theory and practical labwork. Prerequisites: Completion of PHYSICS 220 or PHYSICS 250. Offered: Spring.

PHYSICS 395L. Computer Interfacing Laboratory
An introduction to data acquisition and automation by computer interfacing transduction and control equipment through the serial and parallel buses. The course is multidisciplinary, balancing the physics of transduction to the computer science of automation programming to the electrical engineering of bus protocols. Both high- and low-level programming are taught within the context of automating an experimental procedure. Digital-to-analog and analog-to-digital conversion is also covered. Prerequisites: PHYS 385L. Offered: Fall Even Years.

PHYSICS 410. Thermal Physics
A study of the laws of thermodynamics and their applications, with an introduction to kinetic theory. Statistical methods are emphasized. Prerequisites: One year of physics and calculus. Offered: Fall Odd Years.

PHYSICS 413. Computational Physics
Introduction to scientific programming and numerical analysis with applications to physics. Prerequisites: Undergraduate mathematics through differential equations plus one year of physics or consent of instructor. Offered: Even Years.

PHYSICS 420. Optics
Geometrical optics, physical optics and introduction to selected topics in modern optics. Prerequisites: One year of physics and Calculus I and II. Offered: Spring even years.

PHYSICS 420. Optics
Geometrical optics, physical optics and introduction to selected topics in modern optics. Prerequisites: One year of physics and Calculus I and II. Offered: Spring even years.

PHYSICS 425L. Optics Laboratory
Fundamental experiments with geometrical and physical optics. Prerequisite: Must be taking or have completed Physics 420. On demand.

PHYSICS 425L. Optics Laboratory
Fundamental experiments with geometrical and physical optics. Prerequisite: Must be taking or have completed PHYSICS 420 and successful completion of the WEPT (effective FS93).

PHYSICS 431. Methods Of Theoretical Physics II
A continuation of PHYSICS 430R stressing applications to Physical and engineering problems. Prerequisite(s) PHYSICS 430R Offered: Winter

PHYSICS 437. Particle Physics
Essential aspects of modern physics are examined in a historical context, and also in terms of the standard model describing concisely the fundamental interactions among particles. Conservation laws are discussed, and recent developments such as String Theory are considered. Physics 437 is also offered as Physics 5537. Prerequisites: Physics 240, Physics 250, Physics 350 or 472.

PHYSICS 445L.W1 Modern Physics Laboratory
Classical experiments in modern physics including such topics as hydrogen spectra, Faraday effect, holographs, e/m of the electron, the photoelectric effect, the Zeeman effect and the Franck-Hertz experiment. Four hours of laboratory work per week. Must have completed WEPT. Corequisite: PHYSICS 350. Offered: Winter-Even Years.

PHYSICS 450. Introduction To Solid State Physics
Crystal structure and binding, elementary lattice dynamics and energy band theory. Free electron models, theory of semiconductors and metals. Prerequisites: Mechanics I or Thermal Physics, or consent of instructor. Offered: Spring Odd Years.

PHYSICS 450. Introduction To Solid State Physics
Crystal structure and binding, elementary lattice dynamics and energy band theory. Free electron models, theory of semiconductors and metals. Prerequisites: Mechanics I or Thermal Physics, or consent of instructor. Offered: Spring Odd Years.
PHYSICS 460 Electricity And Magnetism I
Static electric fields in free space and material media; Kirchoff's laws and direct current circuits; static magnetic fields. Prerequisite: One year of physics and calculus. Offered: Spring.

PHYSICS 460 Electricity And Magnetism I
Static electric fields in free space and material media; Kirchoff's laws and direct current circuits; static magnetic fields. Prerequisite: One year of physics and calculus. Offered: Spring.

PHYSICS 461 Electricity And Magnetism II
Magnetostatics; alternating current circuits; Maxwell's equations and radiation; special relativity; topics in electromagnetism. Prerequisite: PHYSICS 460 or consent of instructor. Offered: Winter.

PHYSICS 465 Cosmology
This course provides a foundation in both physical and observational cosmology. Students will acquire both a mathematical and conceptual understanding of the formation and dynamics of the Universe. Prerequisites: Physics 240 and 250, Math 210 and 220, or consent of the instructor. Offered: spring semester, odd years.

PHYSICS 472 Introduction To Quantum Mechanics
Introduction to the theory and applications of quantum mechanics with emphasis on the mathematical treatment of modern physics. Prerequisite: PHYSICS 350 or consent of instructor. Offered: Fall.

PHYSICS 472 Introduction To Quantum Mechanics
Introduction to the theory and applications of quantum mechanics with emphasis on the mathematical treatment of modern physics. Prerequisite: PHYSICS 350 or consent of instructor. Offered: Fall.

PHYSICS 475LWI Nuclear Physics Laboratories
Experiments concerning the properties of alpha, beta and gamma radiation, their emission and interactions with matter. Must have completed WEPT. Four hours of laboratory work per week. Offered: Winter-Odd Years.

PHYSICS 476LW Advanced Laboratory
This course offers a selection of important experiments in physics, performed with modern instrumentation. It is designed to give students a deeper understanding of physics and help them develop experimental abilities and improve their communication skills. Corequisite: Physics 350 or consent of instructor. Prerequisite: Successful completion of the WEPT or consent of instructor. Offered: Fall-Odd Years

PHYSICS 480 Electron and Scanning probe Microscopy
The principles of electron optics, diffraction, and sample preparation, image interpretation and photographic processing are taught; student operation of the electron microscope and individual projects are emphasized. Must have completed WEPT. Prerequisite: Consent of instructor. Offered: Fall.

PHYSICS 490 Special Problems
The kind of problem and the amount of credit to be given by arrangement with the department. Prerequisite: Consent of the department. Offered: On Demand.

PHYSICS 499 Undergraduate Research
Independent student research on a physics/astrophysics project under the supervision of a faculty member. Projects will engage students in aspects of the scientific process including data collection and analysis, research methods and strategies, scientific discussion and written/oral communication. Requires a minimum of 3-4 hours of research per week for each credit hour.

PHYSICS H150 Honors: Introduction To Astronomy
Honors: Introduction To Astronomy

PHYSICS H220 General Physics II
Fundamental principles of physics including sound, electricity, magnetism, optics, elementary modern physics, and applications of these principles to different interdisciplinary natural science. Prerequisite: Physics 210 or equivalent or consent of instructor. Three lectures and one two hour laboratory period per week. Offered: Fall and Winter

PHYSICS H240 Physics For Science And Engineering I
Introduction to mechanics, wave motion and sound and heat and thermodynamics. CoRequisite: Calculus I Offered: Fall and Winter
PHYSICS H250 Physics For Science And Engineering II
Introduction to electricity and magnetism, light and optics and modern physics. Prerequisite: Physics for Science and Engineering I. Corequisite: Calculus II or consent of instructor. Four hours lecture and two hours laboratory per week. Offered: Fall and Winter.

Political Science (POL-SCI)
POL-SCI 210 American Government
American government and politics, with special reference to the U.S. Constitution. This course meets the state requirement for study of the U.S. and Missouri Constitutions. Prerequisite: None. Offered: Every semester.

POL-SCI 210 American Government
American government and politics, with special reference to the U.S. Constitution. This course meets the state requirement for study of the U.S. and Missouri Constitutions. Prerequisite: None. Offered: Every semester.

POL-SCI 220 Introduction To Comparative Politics
An analysis of the way political institutions, processes and policies vary from country to country. Emphasis on politics in Europe, with attention to other nations when making comparisons. Prerequisite: None.

POL-SCI 220 Introduction To Comparative Politics
An analysis of the way political institutions, processes and policies vary from country to country. Emphasis on politics in Europe, with attention to other nations when making comparisons. Prerequisite: None.

POL-SCI 300 Interdisciplinary Studies:Cluster Course
Provides an overview of the interrelationships of the humanities and social sciences. Offered in conjunction with other departments.

POL-SCI 300CS Cluster Course: History Of Russian Culture

POL-SCI 301 Western Political Philosophy
An examination of the major theories of politics from Plato to today.

POL-SCI 302 Political Research And Analysis
This class focuses on methods of analysis used in political science research. This course also covers research plans used to gather information about politics and effective ways of utilizing that information. As advances in computing technology expand the availability of politically-driven data, it is possible to bring an increasing amount of information to bear on more questions.

POL-SCI 302 Political Research And Analysis
This class focuses on methods of analysis used in political science research. This course also covers research plans used to gather information about politics and effective ways of utilizing that information. As advances in computing technology expand the availability of politically-driven data, it is possible to bring an increasing amount of information to bear on more questions.

POL-SCI 303 Political Behavior
This course will survey research on conventional and unconventional forms of mass political behavior. Topics to be discussed include campaign participation, voting behavior, public opinion, the media, and participation in protests and revolutions. This course will also cover the methodological approaches to the study of political behavior.Offered: Spring

POL-SCI 303 Political Behavior
This course will survey research on conventional and unconventional forms of mass political behavior. Topics to be discussed include campaign participation, voting behavior, public opinion, the media, and participation in protests and revolutions. This course will also cover the methodological approaches to the study of political behavior.Offered: Spring

POL-SCI 304 Politics Of The Developing Nations
An analysis of the evolving political systems of the new nations in Africa, Asia and Latin America. Social, cultural and economic influences on political processes and policies are explored.

POL-SCI 305 Survey Research And Analysis
Students will learn the process of research design and how one designs and implements surveys. The students will also learn how one analyzes survey data. Prerequisite: None Offered: Annually
POL-SCI 306 International Relations
An analysis of relations among nations, with emphasis on structures of international power, causes of war, and approaches to peace.

POL-SCI 307 The United Nations: Politics And Economics
This interdisciplinary course covers many facets of the United Nations, acquainting students with its structure, its operations and its involvement in international events, past and present. It merges politics, economics issues and the history of the UN in an effort to understand more fully the UN's role in international diplomacy. Students in this course will have an opportunity to participate in various Model UN conferences during the year. Offered: Fall Semester

POL-SCI 308 Politics, Parties And Pressure Groups
This course is an introduction to parties and interest groups, and their important role in the political process. We will examine the formation, organization, activities, and impact of political parties and interest groups in the US and in comparative perspective.

POL-SCI 309 Public Opinion And Voting Behavior
A study of the formation, distribution and expression of public opinion and partisanship in the American political system.

POL-SCI 310 African Americans and the American Political Process
This course will analyze political culture, socialization, and mobilization with a focus on trends in the interaction between African Americans and institutions, processes, policies, and other actors that comprise the American system of politics and governance. Offered: Every other semester.

POL-SCI 311 Comparative Politics: Techniques Of Social Control
An analysis of techniques used by regimes to perpetuate themselves in office and the effects of these techniques upon constitutional continuity, ideology, and social and economic change.

POL-SCI 312 Mass Media And American Politics
An examination of the role of mass media in American electoral and policy processes.

POL-SCI 313 Politics In The American States
A study of the structures, functions, and politics of the institutions of American state governments and an assessment of their role in the federal system. This course is particularly interested in the extent to which political economy and political culture, broadly defined, influence public policy within the states. Prerequisite: None.

POL-SCI 314 Politics of Kansas City Metro
This course will provide an understanding of politics in urban America through a study of metropolitan Kansas City. It will discuss the relationships between local governments, their decision making process, city-county consolidation, structure of regional council of governments, forming political alliances and current political issues affecting the metropolitan area. The course will discuss the politics of issues like transportation, sports facilities, environment and economic competitiveness. Offered: Winter

POL-SCI 314 Politics of Kansas City Metro
This course will provide an understanding of politics in urban America through a study of metropolitan Kansas City. It will discuss the relationships between local governments, their decision making process, city-county consolidation, structure of regional council of governments, forming political alliances and current political issues affecting the metropolitan area. The course will discuss the politics of issues like transportation, sports facilities, environment and economic competitiveness. Offered: Winter

POL-SCI 316 Terrorism And Political Violence
This course explores terrorism and armed struggle from theoretical and historical perspectives, and analyzes a number of violent movements with nationalist, ideological, and religious motivations. Offered: As Needed
POL-SCI 317 Revolutionary Origins Of The Modern State
An examination of the radical changes in economics, the social order, institutions and ideologies since the French Revolution which have led to the rise of totalitarianism and unstable democratic political systems in the advanced industrial nations.

POL-SCI 318 Political Psychology
The field of political psychology is an interdisciplinary field that draws on both psychology and political science to address topics in the political world. This course will focus on a variety of topics including inter-group conflict, stereotyping and prejudice, political socialization, attitude formation and change, political communication, decision heuristics and biases, public opinion, and the future of political psychology.

POL-SCI 319 Campaigns And Elections
This course will examine the role of campaigns in determining the outcome of both congressional and presidential elections and the way that electoral rules structure both campaign strategies and electoral outcomes. This course focuses on topics such as the role of the media, campaign advertising, campaign financing, public opinion, registration requirements, and the role of interest groups.

POL-SCI 320 Racial & Ethnic Politics
This course provides an analysis of the political behavior and roles of racial and ethnic groups in the American political system. Theoretical, empirical, and practical issues of race, racism, and race relations are examined in the political context. Public policy, electoral behavior, and political institutions are also investigated with regards to the empowerment and political incorporation of communities of color.

POL-SCI 327 Nationalism And Ethnic Conflict
Nationalism and ethnicity serve as a basis for group identification, political mobilization, terrorism, war, and genocide. This course provides students with theoretical frameworks for analyzing nationalism and ethnic strife, and explores case studies to test our assumptions and theories about nationalist violence. Offered: As needed

POL-SCI 328 State And Local Government
In this course, we will cover the major issues, institutions, and political actors involved with state and local government. The class will expose you to how American federalism impacts states, metropolitan regions, and cities. The politics of governance, agenda setting, and public budgeting are also examined. The main objective is to develop a good understanding of the literature (theoretically, empirically and practically) on state and local politics.

POL-SCI 332 American National Security
Since the Second World War, the United States’ military instrument has grown increasingly isolated from the other instruments of national power. The needs of the post-cold war era, in contrasts, are for the more sophisticated orchestration of all instruments of national power at all levels of government. Students will be presented with the relevant concepts of international relations theory, national security strategy, legislation, and the executive branch organizations that wield the instruments of national power. The course pays particular attention to the National Security Council, established by 1947 legislation to integrate the domestic, foreign, and military policies of the United States as they relate to national security. Offered: On demand.

POL-SCI 333 Social Networks in Politics
This course focuses on mass political behavior and social networks in the US. Particular attention will be devoted to how relations between individuals can affect political attitudes and participation. We will also consider how these individual relations combine to shape outcomes such as political attitudes, voter turnout, and election outcomes.

POL-SCI 336 American Foreign Policy
Understanding the contemporary debate over American foreign policy in terms of the premises and perspectives of several competing schools of thought.

POL-SCI 338 Religion And Politics
This course explores the rise of Islamic, Christian, and Jewish fundamentalisms in the modern world and assesses their impact on states, societies, and cultures around the globe. It explores how faith can be used to organize and legitimate social activism, liberation movements, and political terrorism. Offered: As needed
POL-SCI 339 Cyberspace, Technology, and Politics
In this course we will read significant thinkers who are pondering major changes occurring in politics and society because of technology and the internet. Some argue that the world is getting "flat" and think that the change will be beneficial, while others believe we need to make economic units smaller and more local. We will also explore the internet, blogs and web 2.0 and explore their effect on our lives and on politics.

POL-SCI 341 The Theory Of Democracy
Analysis of the writings of philosophers like Hobbes, Locke, Rousseau, Marx and Nietzsche who developed and analyzed the ideas associated with modern democracies.

POL-SCI 342 American Political Thought
A study of American political ideas, with emphasis on current problems and conflicts, and intellectual responses to social change.

POL-SCI 343 The Politics Of Social Security
A study of the American Social Security system, including its history, principles, and prospects for the future.

POL-SCI 344 Jurisprudence
An examination of theories of law from the viewpoint of political science.

POL-SCI 345 The Politics Of Sex And Gender
Just as there is a politics of class and race, so is there a politics of sex and gender. Though gender roles and sexual practices seem as though they are natural, post-modern theorists argue that they are social constructions that change over time, privilege some groups, and disadvantage others. In this course we will examine the debate between opposing viewpoints and discuss how and where political decisions are made in this area. Prerequisite: None.

POL-SCI 346 Introduction to the Trial Process
This course examines the trial process. We examine both about the structure of the judicial system and the different elements of a trial. Students will also participate in a mock trial using the American Mock Trial Associations annual problem.

POL-SCI 347P Crime and Civil Liberties
A study of civil liberties in American society, emphasizing their role in the criminal and legal process. Topics include issues related to the Fourth, Fifth, Sixth, Eighth and 14th amendments. Other topics to be covered will depend on class interest and current events. Part of PACE Block -- Justice and Society.

POL-SCI 348 Constitutional Law: The Federal System
A study of the president, congress and state governments from the perspective of the Constitution, emphasizing powers and limitations on the exercise of authority.

POL-SCI 349 Constitutional Law: Civil Liberties
A study of civil liberties in American society, emphasizing factors and forces that restrict or enlarge their scope, as understood through constitutional interpretation.

POL-SCI 353 Chinese Politics
China's political system from earliest origins to the present. Close attention is given to the manner in which current political and economic institutions function. Comparisons are made with other communist and Asian political systems.

POL-SCI 354 Politics In Russia
A study of domestic and international politics in Russia, emphasizing the post-Soviet period.

POL-SCI 355 Politics In Eastern And Central Europe
An analysis of the internal politics and foreign policies of the Czech Republic, Slovakia, Hungary, Poland, and selected other countries in East-Central Europe, emphasizing the transition to post-Communist rule and new and enduring patterns of political
POL-SCI 357 European Politics
An examination of government and politics in the established democracies of Western Europe, and of political developments in the former Communist states of Central and Eastern Europe. Offered: Winter.

POL-SCI 358 Global Political And Social Issues
This course is designed to afford the student with an overview of important global and regional challenges associated with the emerging 21st century. Hence, there are three objectives: (1) gain an understanding of the facts and complexities of the selected issues within the framework of globalization; (2) describe and explain difficulties in formulating political/ policy consensus aimed at resolving these issues; (3) considering both the factual complexities and difficulties in formulating policy; identify future trends related to major global challenges.

POL-SCI 359 Latin American Politics
In this course we will focus on the major periods in Latin American political history since the Great Depression. This includes the post-War period of optimism in which democratic governments promoted rapid economic development, the period of pessimism and authoritarianism from the 1960s to the 1980s, and a new democratic renewal beginning in the 1990s. We will examine the consolidating democracies that emerged in the 1990s in depth. We will also examine case studies of recently failed democracy, Venezuela, and ask why this democracy failed.

POL-SCI 360 Labor, Politics and Society
This course explores many aspects of unions and the labor movement in society and the vital role organized labor plays as a pillar of democratic society. Unions impact the economy, growth, and the distribution of wealth, and the impact racial and gender equality, social security health and job safety, energy and the environment, and even foreign relations. As a social movement, labor has had a major impact on American history. This course covers these topics from a labor perspective. It examines current obstacles for union organizing, recent union campaigns, labor's political role, and the relationship between labor and the media. This course is part of the Certificate Program in Labor Studies and is offered on the University of Missouri Interactive Video Network at UMKC, UMSL, and UMC.

POL-SCI 361 Global Issues in a Changing World
Threats to national and international securing were once dominated by military force and interstate warfare. Threats are now seen in a much broader context. Non-state, transnational actors now pose a threat to transnational business, states, and even civilizations. Issues like global climate change and HIV/AIDS are seen as threats to national survival well beyond any single nation's ability to contain. For some, the deep phenomenon of globalization is seen as a threat to national sovereignty and, indeed, a threat to the international system of states. In this course, challenges and opportunities replace threat as the organizing principle, and the role of international institutions takes center stage. Offered: Annually.

POL-SCI 362 Latin America and International Relations
This course we will survey the relations between Latin American states and between Latin America and the world. Taking the Latin American states as the key actors, we examine the history of US-Latin American relations, including current issues such as drug trafficking, immigration and terrorism. We will also study the region as a player on the international stage, examining Latin America's changing role in the world arena related to trade, development, and the environment. Finally, we examine the emergence of new leadership in Latin America. Offered: Every other semester.

POL-SCI 364 Designing American Elections
This course examines the role of elections in American politics. Topics include voter registration, campaign finance, redistricting, the electoral college, and primary elections. We will also evaluate how different electoral rules affect political outcomes such as voter turnout, participation, and representation.

POL-SCI 369 Politics Of The Middle East
This course explores the formation of the modern Middle East; the role of Islam in shaping its political cultures; the post-colonial transformations that shaped its current political systems; the economic and democratic reforms that challenge existing regimes; and the pivotal states and conflicts that stir regional politics. Offered: As needed.

POL-SCI 370 Labor Law
In this course, participants will examine the role of government in the regulation of labor-management relations in the United States. While the focus of the course will be on federal laws regulating private sector labor relations, parallel issues addressed in the Railway Labor Act and state public sector labor relations law will also be covered. Specific topics include the legal framework for the organization of workers, definition of prohibited or unfair labor practices of employers and unions, legal regulation of the collective bargaining process, regulation of the use of economic weapons in labor disputes, enforcement of collective bargaining agreements and the regulation of internal trade union activities. Prerequisites: None.
POL-SCI 380 Political Science And Politics
Offered as a special course in the individual faculty member's area of research specialization. The course may be repeated for credit when the topic varies. The topic and instructor will be announced in advance. Prerequisite: Consent of the instructor or advanced standing.

POL-SCI 380 Political Science And Politics
Offered as a special course in the individual faculty member's area of research specialization. The course may be repeated for credit when the topic varies. The topic and instructor will be announced in advance. Prerequisite: Consent of the instructor or advanced standing.

POL-SCI 380A Political Science And Politics

POL-SCI 380B Political Science And Politics

POL-SCI 380C Political Science And Politics

POL-SCI 380D Political Science And Politics

POL-SCI 380E Political Science And Politics

POL-SCI 380X Political Science And Politics

POL-SCI 381 Mock Trial
A study of the trial process in the U.S. judicial system focusing on the structure and rules of trials, including the role of attorneys. Combination of student performance with in-class lecture and discussion. Restrictions: Consent of instructor

POL-SCI 403 Political Ideology
A critical examination of contemporary political ideologies including democratic and authoritarian theories.

POL-SCI 403 Political Ideology
A critical examination of contemporary political ideologies including democratic and authoritarian theories.

POL-SCI 405 American Constitutional Thought
An analysis of the development of American constitutional doctrine, with emphasis on the historical and intellectual context within which the Supreme Court changes its attitudes toward economic and political issues.

POL-SCI 406 Presidential Politics
This course will examine the American presidency as an institution, and will analyze its role in the American political system. It will also consider the administrations of the various presidents.

POL-SCI 406 Political Leadership
This weekend course will examine theories, institutions and styles of political leadership; analyze recruitment and selection methods; and study popular perceptions of such leaders. Using film, fiction and materials from political science, this course will culminate in a look at U.S. presidents and the presidency in the 20th century. Prerequisites: Social Science PACE 102P and 103P, or POL-SCI 210 or equivalent; concurrent enrollment in POL-SCI 409P for those in the PACE Program or in the B.L.A. degree program. For other students, the consent of the instructor is required. Students who have credit for POL-SCI 406A or its equivalent may not enroll in this course.

POL-SCI 406P Political Leadership
This weekend course will examine theories, institutions and styles of political leadership; analyze recruitment and selection methods; and study popular perceptions of such leaders. Using film, fiction and materials from political science, this course will culminate in a look at U.S. presidents and the presidency in the 20th century. Prerequisites: Social Science PACE 102P and 103P,
or POL-SCI 210 or equivalent; concurrent enrollment in POL-SCI 409P for those in the PACE Program or in the B.L.A. degree program. For other students, the consent of the instructor is required. Students who have credit for POL-SCI 406A or its equivalent may not enroll in this course.

POL-SCI 407 Congressional Politics
A study of legislative institutions, procedures and behavior (with emphasis on the U.S. Congress) in the context of theories of political representation.

POL-SCI 407 Congressional Politics
A study of legislative institutions, procedures and behavior (with emphasis on the U.S. Congress) in the context of theories of political representation.

POL-SCI 407P Politics Of Representation
A study of legislative institutions, procedures and behaviors in the U.S. Congress that raises practical as well as theoretical questions of political representation in modern society. This course will be presented by video cassette and will be integrated with POL-SCI 406P and POL-SCI 409P. Prerequisites: Social Science PACE 102P and 103P or POL-SCI 210 or equivalent; concurrent enrollment in POL-SCI 406P and POL-SCI 409P.

POL-SCI 408 Judicial Politics
An examination of the judiciary in the American political process, emphasizing the role of judges, lawyers and the Supreme Court.

POL-SCI 409 Bureaucratic Politics
A study of political processes that create and operate within bureaucracies in the American pluralist system. Close attention is given to the tension between representation and rationality when making decisions.

POL-SCI 409 Bureaucratic Politics
A study of political processes that create and operate within bureaucracies in the American pluralist system. Close attention is given to the tension between representation and rationality when making decisions.

POL-SCI 409P Bureaucratic Politics
This weeknight course will examine the emergence of bureaucracies as the modern method of collective problem solving. In the U.S. political context, this involves the dynamic interplay of rational choice, due process and pluralistic politics. The transitions from limited to positive government and then to the current ethos of deregulation will be studied.

POL-SCI 418 International Security
The course examines competing theories and concepts of national and international security, selected security issues, and the responses of several countries to different security environments.

POL-SCI 424 Urban Politics and Community Power Structures
This course surveys and analyzes the literature covering urban politics. Students will gain both a theoretical understanding of and empirical grounding in the politics of urban America. An array of important political, social and economic problems that impact urban politics will be examined.

POL-SCI 425 Comparative Politics
Aspects of politics in various countries as viewed through the language and thought processes of contemporary approaches to political science.

POL-SCI 425 Comparative Politics
Aspects of politics in various countries as viewed through the language and thought processes of contemporary approaches to political science.

POL-SCI 427 Presidential Power: foundations, Growth, Issues
An intense examination of the growth of presidential power, from its constitutional foundations; the necessity of a strong presidency, but the potential for abuse. Appropriate for the general student, as well as for majors in political science.

POL-SCI 428 Political Culture And Political Behavior
This course will examine the concept of political culture and its use in the empirical analyses of political behavior in advanced political systems. Emphasis will be placed on the U.S system with comparisons drawn from Western Europe. The student will be expected to complete an empirically documented research paper.
POL-SCI 429 Courts And Public Policy
An analysis of how courts influence policy in selected political arenas.

POL-SCI 432 American Security Policy
An examination of national security policy as an organizational and intellectual response to changes in technology and international conflict.

POL-SCI 435 Politics Of The Environment
A survey of the political aspects of environmental issues. The course poses the problems of environmental damage and examines actual and proposed policies aimed at addressing them. Also offered through the PACE program. Prerequisite: None.

POL-SCI 435 Politics Of The Environment
A survey of the political aspects of environmental issues. The course poses the problems of environmental damage and examines actual and proposed policies aimed at addressing them. Also offered through the PACE program. Prerequisite: None.

POL-SCI 435 Politics Of The Environment
A survey of the political aspects of environmental issues. The course poses the problems of environmental damage and examines actual and proposed policies aimed at addressing them. Also offered through the PACE program. Prerequisite: None.

POL-SCI 435P Politics Of The Environment
A survey of the political aspects of environmental issues. The course poses the problems of environmental damage and examines actual and proposed policies aimed at addressing them. The course content is the same as POL-SCI 435 title except additional reading and writing will be required commensurate with a 4 credit hour course.

POL-SCI 438 Urban Politics
The study of local politics and government in metropolitan areas with special attention to political party and interest group activity; community leadership, influences and "power"; and citizen participation and political behavior.

POL-SCI 438 Urban Politics
The study of local politics and government in metropolitan areas with special attention to political party and interest group activity; community leadership, influences and "power"; and citizen participation and political behavior.

POL-SCI 440 Contemporary Political Thought
Political philosophy from Nietzsche to today.

POL-SCI 441 Political Freedom
Selected writings by political thinkers dealing with the establishment of freedom and justice in the state. Examines the challenges to political freedom under various regimes.

POL-SCI 442 American Political Thought
This course will focus on intellectual reactions to the major periods in American history (the movement for independence, the writing of the Constitution, the Jacksonian period, the Civil War debate, the growth of big business, the rise of the positive state and contemporary America). Contemporary theorists will be included along with Adams, Jefferson, Madison, Hamilton, Marshall, etc.

POL-SCI 450WI Ethics And Government
An examination of ethical issues related to government with the primary focus on national and local governmental bodies in the United States. Ethics in the executive, legislative and judicial branches are examined. Ethical standards for elected officials and appointed public servants are reviewed. Attempts to "legislate morality" are considered. The course includes a historical review of ethics and government and an analysis of the legal implications of legislation regarding ethics in the executive branch. Prerequisite: Successful completion of the WEPT.

POL-SCI 451 International Politics In Europe
An examination of developments in international politics in Europe since the end of the Cold War. Issues are discussed in the context of relevant theories of international relations. Offered: every two years Restrictions: May not be taken by those who took "Europe After the Cold War"

POL-SCI 452 Concepts in International Relations
This course exposes advanced undergraduate students to major conceptual and theoretical approaches to international relations. Restrictions: Prior course in international relations, politics, economics or history, or permission of instructor.
POL-SCI 480 Government And Politics
This variable credit course will explore different contemporary issues and problems related to government and politics. Credit may apply to the major but will not satisfy any of the four subfields distribution requirements.

POL-SCI 480F Government And Politics

POL-SCI 490 Senior Seminar
A review, analysis and integration of the literatures of the several sub-fields of the discipline. For senior political science majors only. Prerequisite: Senior standing. Offered: Each semester.

POL-SCI 491 Internship
With the written consent of the department chairman, students may participate in structured internship programs approved by the department for a maximum of six hours.

POL-SCI 492W1 Senior Seminar (Capstone)
This intensive survey of political science provides graduating seniors an opportunity for integration and review of their study of political values, behavior, and institutions. Satisfies both writing intensive and capstone requirements. Prerequisites: Senior standing in political science and completion of the WEPT. Offered: Winter.

POL-SCI 493 Study Abroad
This course is designed to allow students to get credit for overseas study in approved programs. These include research intensive programs like InterFuture, programs which are approved by the International Studies Center at UMKC, internships and other programs run by angelicas of the U.S. government, and programs run by accredited Colleges and Universities. Students will need the prior approval of the Chair or Undergraduate Advisor of the Political Science Department, and will be required to work with a faculty member in the Department. Offered: On demand.

POL-SCI 497 Political Science Tutorial
Senior political science majors may apply to do independent study under a selected professor. Must have written consent of the professor prior to registration. Only one tutorial will count toward the major.

POL-SCI 498 Honors Tutorial
Senior political science majors with a grade point average of 3.4 or above in political science may apply to do independent study under a selected professor. Must have written consent of professor prior to registration. Only one tutorial will count toward the major.

Psychology (PSYCH)

PSYCH 210 General Psychology
A survey of the fundamental principles, theories, and methods of psychological science. Prerequisite to all other courses in psychology except with consent of the instructor. Offered: Each semester.

PSYCH 270P Compulsive Gambling And Other Addictions
Course will focus on compulsive gambling and the psychology of addiction. Alcohol, drug, food and sex addiction will also be explored. After attending this course, the student will be able to understand the problem gambling continuum, the phases of the problem gambler and how this addiction affects the family.

PSYCH 302W1 Experimental Psychology
The rationale and methodology of experimentation in psychology, emphasizing interpretation of data and the design of experiments. Three hours lecture and two hours laboratory a week. Prerequisites: PSYCH 210; PSYCH 316 must be completed prior to or concurrently with this course; successful completion of WEPT. Offered: Each semester.

PSYCH 302W1 Experimental Psychology
The rationale and methodology of experimentation in psychology, emphasizing interpretation of data and the design of experiments. Three hours lecture and two hours laboratory a week. Prerequisites: PSYCH 210; PSYCH 316 must be completed prior to or concurrently with this course; successful completion of WEPT. Offered: Each semester.

PSYCH 303W1 Psychological Writing
Writing skills in science are emphasized. Instruction and intensive practice in writing are provided. Prerequisites: PSYCH 210; Successful completion of the WEPT exam.
PSYCH 304 Learning
Survey course of the fundamental principles of contemporary theories of learning. Prerequisite: Psych 210

PSYCH 305 Psychology Of Women
A critical examination of studies of the psychology and behavior of women. Prerequisite: PSYCH 210.

PSYCH 308 Sensation And Perception
The study of how we perceive the world through our senses, including the anatomy and function of the sense organs and the effect of normal and altered sensory experience on behavior. Prerequisite: PSYCH 302WI must be completed prior to or concurrently with this course. Restrictions: May not be taken for graduate credit.

PSYCH 310 Theories Of Aggression
Major theories of aggression and their application are examined. Prerequisite: PSYCH 210.

PSYCH 311 Applied Psychology
The major applications of scientific psychology to human problems and behavior, such as business, mental health, and education are covered. May not be taken for graduate credit. Prerequisite: PSYCH 210.

PSYCH 312 Social Psychology
Survey of behavior in the actual, imagined, and implied presence of others, including attitudes, the self, conformity, altruism, aggression, prejudice, and group processes. May not be taken for graduate credit. Prerequisite: PSYCH 210. Offered: Each semester.

PSYCH 316 Quantitative Methods In Psychology
Introduction to the use, calculation, reporting, and interpretation of descriptive and elementary inferential statistical techniques in psychological science. May not be taken for graduate credit. Prerequisite(s): PSYCH 210; Any MATH 110 or higher (except MATH 125). Offered: Each semester.

PSYCH 320 Ethnic And Minority Perspectives In Psychology
The theory, methods and content of psychology relevant to the interests and needs of ethnic minorities, and the contributions of ethnic groups and other minorities to psychology. Prerequisite: PSYCH 210.

PSYCH 322 Child Psychology
Survey of child development from conception to adolescence, including major theories, developmental milestones and research related to the physical, cognitive, social and emotional growth of children. May not be taken for graduate credit. Prerequisite: PSYCH 210. Offered: Each semester.

PSYCH 322P Child Psychology
Survey of the child development from conception to adolescence, including major theories, developmental milestones and research related to the physical, cognitive, social and emotional growth of children. May not be taken for graduate credit. Prerequisite: PSYCH 210.

PSYCH 323 Theory And Methods Of Personality
The development, organization, dynamics and determinants of personality. May not be taken for graduate credit. Prerequisite: PSYCH 210. Offered: Each semester.

PSYCH 328 Psychology Of Human Sexual Behavior
The psychological, biological and social factors that contribute to human sexuality, and a review of human sexual development across the lifespan. Prerequisite: PSYCH 210.

PSYCH 331 An Introduction To Health Psychology
A survey of the role of psychological factors in physical health and well-being including in health promotion, disease prevention, and adjustment to illness. Prerequisite: PSYCH 210.

PSYCH 400 Principles Of Psychological Testing
The theory of psychological testing and measurement. Prerequisite: PSYCH 316.

PSYCH 403 Environmental Psychology
Environmental influences on the behavior of individuals and their influence on the environment. Prerequisite: PSYCH 210.
PSYCH 403 Environmental Psychology
Environmental influences on the behavior of individuals and their influence on the environment. Prerequisite: PSYCH 210.

PSYCH 405 Motivation and Emotion
A review of the principles of both human and animal motivation from classical drive, behavioral, and cognitive perspectives. May not be taken for graduate credit. Prerequisite: PSYCH 210.

PSYCH 405 Motivation and Emotion
A review of the principles of both human and animal motivation from classical drive, behavioral, and cognitive perspectives. May not be taken for graduate credit. Prerequisite: PSYCH 210.

PSYCH 406P Introduction To Developmental Disabilities
Principles of human development, causes of disability, and the effects of disability on individuals and families over the life span. Prerequisite: PSYCH 210.

PSYCH 406P Introduction To Developmental Disabilities
Principles of human development, causes of disability, and the effects of disability on individuals and families over the life span. Prerequisite: PSYCH 210.

PSYCH 407 Cognitive Psychology
Historical foundations and current state of knowledge regarding human information processing and the mental processes that underlie human behavior. Prerequisite: PSYCH 302WI must be completed prior to or concurrently with this course.

PSYCH 407 Cognitive Psychology
Historical foundations and current state of knowledge regarding human information processing and the mental processes that underlie human behavior. Prerequisite: PSYCH 302WI must be completed prior to or concurrently with this course.

PSYCH 407P Developmental Disabilities And Community Life
Focus is on developmental disabilities in community life and interdisciplinary process as a means of coordinating services and supports in community settings. Students will learn about specific disciplines and professions and how they must work together in the community. Topics include the State developmental disabilities network and service system, the principles of person-centered planning, the effects of severe disability on families, and the dynamics surrounding community inclusion of persons with severe disabilities.

PSYCH 407P Developmental Disabilities And Community Life
Focus is on developmental disabilities in community life and interdisciplinary process as a means of coordinating services and supports in community settings. Students will learn about specific disciplines and professions and how they must work together in the community. Topics include the State developmental disabilities network and service system, the principles of person-centered planning, the effects of severe disability on families, and the dynamics surrounding community inclusion of persons with severe disabilities.

PSYCH 415 History And Systems Of Psychology
The historical development of the field of psychology, including a review of its major theoretical schools and methodological advances. This is the department's capstone course. Required of psychology majors. Prerequisites: Grade of C- or better in PSYCH 302WI. Restrictions: Should be taken only by Psychology majors and minors in their senior year. Offered: fall and spring.

PSYCH 418 Brain and Behavior I
Introduction to the neural bases of human behavior, including movement, learning and memory, sensation and perception, emotion, cognition, psychological, and neurological disorders. Prerequisite: PSYCH 302WI.

PSYCH 419 Biopsychology II
Advanced study of the neural bases of behavior. Prerequisite: PSYCH 418.

PSYCH 428 Advanced Applied Child Development
Academic service learning course that focuses on contemporary developmental issues, particularly those with applied and social policy implications for promoting positive healthy development of children and adolescents. Students spend a minimum of 25 hours actively engaged in community work serving children or youth. Prerequisite: PSYCH 322, earned grade of "B" or greater, or written permission of instructor.

PSYCH 430 Introduction To Community Psychology
Introduction to community psychology, a field which seeks to understand how social, political and economic factors contribute to
human and social problems and seeks to improve individual and community well-being through social innovation and action research. Prerequisite: PSYCH 302 WI.

**PSYCH 430 Introduction To Community Psychology**
Introduction to community psychology, a field which seeks to understand how social, political and economic factors contribute to human and social problems and seeks to improve individual and community well-being through social innovation and action research. Prerequisite: PSYCH 302 WI.

**PSYCH 433 Abnormal Psychology**
Introduction to major psychological problems and disorders as well as consideration of some of the many interacting biopsychosocial influences viewed from an empirically-informed perspective. May not be taken for graduate credit. Prerequisite: PSYCH 210. Offered: Each semester.

**PSYCH 440 The Psychology Of Aging**
Survey of concepts, theory, and methods in the psychology of aging, including biological and social influences on behavior. Prerequisite: PSYCH 210. Offered: Spring.

**PSYCH 441 Adult Development And Aging**
Major developmental theories of adult development and aging are reviewed, including the impact of cohort, gender, race/ethnicity, socioeconomic status, and culture on development. Prerequisite: PSYCH 210. Offered: Each semester.

**PSYCH 450 Special Topics**
Offered as the result of student demand, specialized faculty interests, or the availability of a visiting expert in a field related to psychology. Prerequisite: Consent of instructor. Offered: On demand.

**PSYCH 450A Special Topics**

**PSYCH 450L Special Topics In Psychology**

**PSYCH 453P Family Life Cycle: Dev Approach Understanding Family Dynamic**
The primary purpose of this course is to enhance the student's understanding of the dynamics of healthy families. After receiving a historical overview of the development of families and the cultural roots and traditions behind family structures, child-rearing values and other factors, the student will be given a framework to understand how healthy families establish a dynamic balance between individual and group needs, and between needs to establish structure and to be flexible in the face of change. A second framework will also be presented to provide students with an understanding of how families use their internal resources to cope with life stressors. Given these basic cultural, interactional, and coping frameworks as foundation for understanding, students will explore how families change as they move through time from formation as a couple through early child-rearing, adolescence, mid-life, and post retirement. Implication for human service professionals will be presented.

**PSYCH 453P Family Life Cycle: Dev Approach Understanding Family Dynamic**
The primary purpose of this course is to enhance the student's understanding of the dynamics of healthy families. After receiving a historical overview of the development of families and the cultural roots and traditions behind family structures, child-rearing values and other factors, the student will be given a framework to understand how healthy families establish a dynamic balance between individual and group needs, and between needs to establish structure and to be flexible in the face of change. A second framework will also be presented to provide students with an understanding of how families use their internal resources to cope with life stressors. Given these basic cultural, interactional, and coping frameworks as foundation for understanding, students will explore how families change as they move through time from formation as a couple through early child-rearing, adolescence, mid-life, and post retirement. Implication for human service professionals will be presented.

**PSYCH 458 Behavior Modification**
Survey of procedures used to change individual behaviors in variety of settings. Prerequisites: PSYCH 302WI and PSYCH 304.

**PSYCH 461A Field Practicum**
Provides supervised experience working in community agencies/ organizations which address various human and social problems. A minimum of ten hours per week at practicum site and class attendance are required. Prerequisite(s): PSYCH 302WI; at least 15 credit hours of psychology. Consent of instructor. Offered: Fall and Spring semesters.

**PSYCH 490 Directed Individual Research**
Students work on an individual research project under the supervision of a departmental faculty member. Prerequisite: Consent of
instructor. Semester Offered: On demand. 

**PSYCH 490** Directed Individual Research  
Students work on an individual research project under the supervision of a departmental faculty member. Prerequisite: Consent of instructor. Semester Offered: On demand. 

**PSYCH 490P** Perceptions & Images Of Disabilities In Literature And Film  
This course combines classroom discussion of selected films and literature and independent study. Students will study films and selections from literature to develop an understanding and awareness of the social, economic and political aspects of disability as conveyed through popular culture. Students will also apply research, observation and writing skills to gain awareness and insights regarding disabilities, through working on an individual or team project. The project will further the understanding of disabilities and how various social, psychological and environmental conditions may affect people with disabilities and their families.

**Religious Studies (RELIG-ST)** 
**RELIG-ST 100** Introduction To Comparative Religion  
An introduction to the major religious traditions of the world and small group or tribal religions. Emphasis on the comparative study of selected myths, rituals, types of religious specialists, and types of religious communities. 

**RELIG-ST 306** History of Christianity to the Middle Ages  
This course examines the historical and theological development of Christianity from its origins to the High Middle Ages. The main themes follow the mechanisms and conditions shaping Christianity's expansion into a major social, institutional, and intellectual force with a focus on patterns of crisis and reform. This course is based on the study of primary sources (both texts and objects) and modern scholarship. cross-listed as History 306A 

**RELIG-ST 307** History of Christianity from Middle Ages to Present  
This course examines the historical and theological development of Christianity from the High Middle Ages to the present. The main themes follow the mechanisms and conditions shaping Christianity's expansion into a major social, institutional, and intellectual force with a focus on patterns of crisis and reform. This course is based on the study of primary sources (both texts and objects) and modern scholarship. cross-listed as History 307A 

**RELIG-ST 400** Special Topics In Religious Studies  
Special topics in religious studies which are not offered regularly. The focus of the course varies by semester and instructor. 

**RELIG-ST 400A** Special Topics In Religious Studies 

**RELIG-ST 400B** Special Topics In Religious Studies 

**RELIG-ST 400C** Special Topics In Religious Studies 

**RELIG-ST 400D** Special Topics In Religious Studies 

**RELIG-ST 400E** Special Topics In Religious Studies 

**RELIG-ST 400F** Special Topics In Religious Studies 

**RELIG-ST 401** Religion in America  
An in-depth examination of selected aspects of the history of religions in America from the colonial periods to the present. Special emphasis will be given to methodological issues in the study of American religious history.Offered: On Demand 

**RELIG-ST 402** Religion and Colonialism in Latin America  
The study of selected aspects of the history of religions in the Americas. Primary focus is on the complex ways that European, Native American African religions helped to structure and negotiate the experiences and the significance of cultural contact and colonialism through lived worlds of meaning.
RELIG-ST 403 Vision, Dreams and Prophesies as Religious Phenomena
This course explores the ways visions, dreams, and prophesies have acquired religious significance in Western and non-Western contexts from the ancient period to the present.

RELIG-ST 404 Gender and Religion
Cross-cultural and comparative study of how religious groups create and transmit gender roles and expectations.

RELIG-ST 467 Myth And Ritual
Myth and "ritual" have long been fundamental categories in the study of religion. This course will briefly survey some of the major theories and approaches to the study of myth and ritual from the Enlightenment to the present. The course will not only trace the shifting meanings of "myth" and "ritual," but will critically evaluate the utility of diverse approaches to the study of religious phenomena designated by these terms. Reading will include theoretical works, as well as selected case studies.

RELIG-ST 484 Sacred Narratives and Texts
This course addresses the "social lives" of sacred narratives and texts in selected religions of the world. Areas of study include methods of exegesis in different religious traditions, orality and literacy (including the reoralization of written text), the canonization process, text as amulets, reading and meditative practices and techniques, and narratives and the arts. The course is comparative, cross-cultural, and interdisciplinary in nature.

RELIG-ST 487 Contemporary Approaches to the Study of Religion
This course which is the second installment in a two course series, charts the historical development of religious studies as an academic discipline, paying particular attention to the models, methods and assumptions that have informed it past and present. In this course, particular emphasis will be placed upon the ways the objects and aims of religious studies have shifted from the Second World War to the present.

RELIG-ST 493 Sex & Religion: The Erotic & The Anti-Erotic In Comparative Persp
This course is designed to highlight issues related to the various ways in which religions of the world have integrated, embraced, or repressed one of the most basic human experiences sexual expression. NOTE: This course will be offered with RELIG-ST 5593; requirements for undergraduates will be less than for graduate students in terms of length and sophistication of the research paper. Offered: On demand

RELIG-ST 493 Sex & Religion: The Erotic & The Anti-Erotic In Comparative Persp
This course is designed to highlight issues related to the various ways in which religions of the world have integrated, embraced, or repressed one of the most basic human experiences sexual expression. NOTE: This course will be offered with RELIG-ST 5593; requirements for undergraduates will be less than for graduate students in terms of length and sophistication of the research paper. Offered: On demand

RELIG-ST 494RS Death In The History Of Religions
As a biological "fact," death would appear to be a human universal. Yet, human beings have imagined--and, thus experienced--the meaning of death in many diverse ways in different cultures and over time. This course explores the conceptualization and representation of death and dying, as well as the ritual activities surrounding death, found in selected religious communities. The goal is to gain insight into how people have sought to (re) create a world of meaning in the face of death and to gain a critical perspective on our own contemporary situation.

RELIG-ST 495RS Time And Space In The History Of Religions
Time and space are essential components of the lived worlds of human beings, yet the cultural and historical constructions of these are remarkably diverse and, moreover, are subject to change. This course is a cross-cultural, interdisciplinary, and comparative exploration of the constructions and experiences of time and space found in selected religious communities and historical periods. In addition, it investigates the pivotal role the categories of "sacred and profane time and space" have played in theorizing religion and in the study of religious myths and rituals in the modern period.

RELIG-ST 496RS The Body In The History Of Religions
The human body is the site of extensive imaginal and ritual activities in all religious traditions. This course explores some of the diverse ways religious communities have imagined and experienced the human body, as well as how the body had been manipulated and worked on in an effort to transform the human situation in the world.

RELIG-ST 497RS Special Topics And Readings
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Permission of Faculty Member. Offered: On demand.
Social Science (SOC-SCI)

SOC-SCI 210 Foundations Of Social Science I
An application of salient principles, facts and methods of social sciences to study of origins and nature of social institutions; problems of emotional adjustment and vocational choice; analysis of contemporary social, legal and economic trends affecting values, conception of freedom and of social power, and political organization. Every semester. Note: Continued in SOC-SCI 220.

SOC-SCI 210P Foundations Of Social Science
An application of salient principles, facts and methods of social sciences to study of origins and nature of social institutions; problems of emotional adjustment and vocational choice; analysis of contemporary social, legal and economic trends affecting values, conception of freedom and of social power, and political organization.

SOC-SCI 302P Power and Authority
This weeknight course is intended to deal with the issues of power and authority as they bear on people at the individual, family, social and political levels. The intent of the course is to discuss the issues of control, power, authority and the limits of obedience. Prerequisites: SOC-SCI 102 and SOC-SCI 103 or equivalent; concurrent enrollment in SOC-SCI 303P.

SOC-SCI 305P Economic Principles And Applications Of Accounting
In this one-hour course, students will use computers to apply accounting principles and to analyze annual reports of corporations. The course will be taught during one hour of a four-hour weeknight course, with ACCTNG 201 being taught during the other three hours. It should be taken concurrently with ACCTNG 201 and with the Independent Study course, SOC-SCI 403P, Business Administration Applications. On a two-year rotation.

SOC-SCI 355P The Environmental Movement: Roots And Actions
A multi-disciplinary course synergizing case studies from history, political science, environmental management, and urban planning to develop a deep understanding of current environmental issues. We will probe such issues as the Concept of Nature and Environmental aesthetics Agriculture and the Environment, Energy and the Environment, Developing the "Built Environment", Environmental Costs of Industrialism, the Birth of the Environmental Movement, Environmental Politics, Environmental Justice and many other topics.

SOC-SCI 359P Technology Policies In Hospitality
This course will allow students to undertake in-depth research of current issues important to the service industry. Focus will be placed on understanding theoretical principles and their impact on management behavior and decision making. Issues may include; the evolving technology of the industry, the impact of the industry on national employment issues, and the social impact of the industry on class and racial issues. This course is offered as an independent study and must be taken in conjunction with ECON 323P: Administration in the Service Industry. Prerequisites: None. Offered: Any Semester.

SOC-SCI 364PW Contemporary Industrial Society
This course examines the historical theoretical and behavioral foundations of the industrial economy of the U.S. Particular emphasis is placed on technological change, the culture of modern corporations, strategic planning and the contemporary environment of business enterprise (legal, social, environmental and economic). The major institutions of business structure of the modern corporation are covered. Prerequisites: ECON 201,ECON 202 and successful completion of WEPT Test. Offered: Fall.

SOC-SCI 375P Contemporary Issues In The Service Industry
This course will allow students to undertake in-depth research of current issues important to the service industry. Focus will be placed on understanding theoretical principles and their impact on management behavior and decision making. Issues may include; the evolving technology of the industry, the impact of the industry on national employment issues, and the social impact of the industry on class and racial issues. This course is offered as an independent study and must be taken in conjunction with ECON 323P: Administration in the Service Industry. Prerequisites: None. Offered: Any Semester.

SOC-SCI 395B The Economics Of The Law
See ECON 395B. Prerequisites: ECON 201 and ECON 202. Offered: Fall.

SOC-SCI 395C Economics Of Energy
See ECON 395C. Offered: Fall.

SOC-SCI 395G Economics Of Poverty
See ECON 395G. Offered: Fall.

SOC-SCI 397A The Economics Of Public Process I
This film/tape course and ECON 397B are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The J.K. Galbraith film series and text, The Age of Uncertainty, provide the central theme for this course. Offered: Fall.
**SOC-SCI 397B** The Economics Of Public Process II
This film/tape course and ECON 397A are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The Milton Friedman film series, Free to Choose, provides the central theme for this course. Prerequisites: ECON 201 and ECON 202. Offered: Summer.

**SOC-SCI 403P** Industrial Organization Applications
The students will read books and business journals and reflect, in written form, on topics related to the organizational environment. Students will also research and prepare technical reports on specific organizational issues. Validation will be coordinated with the technical writing component of the block. Offered: Fall

**SOC-SCI 403P** Industrial Organization Applications
The students will read books and business journals and reflect, in written form, on topics related to the organizational environment. Students will also research and prepare technical reports on specific organizational issues. Validation will be coordinated with the technical writing component of the block. Offered: Fall

**SOC-SCI 411P** Aging In American Society: Past And Present
Modern views of aging are often contrasted with views of aging in earlier times. The popular mythology suggests that the position of the older adult has fallen from a place of high status and respect. Exploring the myths and rhetoric, this introduction to the field of social gerontology examines aging in America as grounded in the nation's history and a variety of sociocultural contexts.

**SOC-SCI 438P** Labor History & Economic Policy
Analysis of the confluence of political and economic behavior the economics of collective action. Prerequisites: ECON 301 and ECON 302.

**SOC-SCI 456P** In-Depth Country Study
Students enrolled in this section will chose a country in Latin America (not their country of origin, if applicable) and prepare a country study. Students will receive a general reading list (which has to be incorporated) and, if desired, suggestions about country-specific readings. The studies should be founded in cultural anthropology: i.e., they should be holistic in integrating all population groups of the country, and they should be integrated in treating the country as an inter-connected, but open, system.

**SOC-SCI 457P** First Nations And Survival In Latin America
This course examines the history of a specific country, historical and contemporary issues (such as genocide, land use, economic and political marginalization and independence movements.) The course focuses on history and experience as it is constructed by and impacts native people. Special consideration is given to women and gender constructs in the native societies and the impact of a dominant European patriarchy.

**SOC-SCI 457P** First Nations And Survival In Latin America
This course examines the history of a specific country, historical and contemporary issues (such as genocide, land use, economic and political marginalization and independence movements.) The course focuses on history and experience as it is constructed by and impacts native people. Special consideration is given to women and gender constructs in the native societies and the impact of a dominant European patriarchy.

**SOC-SCI 458P** Women, Men And Development In A Cultural Context
Students will explore two main areas of social scientific discourse in Latin America: theories of development and marginalization; and feminist interpretation of and responses to development. We will explore how the phases of political and economic history are reflected in ideas about development, dependency, and women's issues. A large part of the class will be concerned with the increasingly important issue of street children in Latin America and other minority issues. Offered: Winter

**SOC-SCI 458P** Women, Men And Development In A Cultural Context
Students will explore two main areas of social scientific discourse in Latin America: theories of development and marginalization; and feminist interpretation of and responses to development. We will explore how the phases of political and economic history are reflected in ideas about development, dependency, and women's issues. A large part of the class will be concerned with the increasingly important issue of street children in Latin America and other minority issues. Offered: Winter

**SOC-SCI 465P** Human Resources In The Service Industry
This course will trace the historical development, and examine current policies and procedures of human resources in service organizations. Special emphasis will be placed on understanding the evolving importance of employees in developing systems to meet operational goals. Management and labor perspectives on legal employment issues, compensations issues, and team development strategies will be examined. Prerequisites: None. Offered: Any Semester.
SOC-SCI 489P Internship In Hospitality Studies
This course will allow students to demonstrate mastery of acquired theories and principles in conjunction with a working hospitality organization. Emphasis will be placed on directed research and readings to enhance individual understanding or concepts. Students will work with the Hospitality Studies Coordinator on exact course requirements. Prerequisites: Permission of instructor. Offered: Every Semester.

SOC-SCI 490C Readings In Labor Economics
See ECON 490C. Prerequisites: ECON 201 and ECON 202. Offered: Winter.

Sociology (SOCIOL)
SOCIO 101 Sociology: An Introduction
An introduction to the study of society and the basic concepts of sociology. Fall, winter, summer.

SOCIO 101 Sociology: An Introduction
An introduction to the study of society and the basic concepts of sociology. Fall, winter, summer.

SOCIO 101 Sociology: An Introduction
An introduction to the study of society and the basic concepts of sociology. Fall, winter, summer.

SOCIO 103 Introduction To Cultural Anthropology
An introduction to culture and the basic concepts of anthropology. Topics include kinship, language, and cultural change. also offered as ANTHRO 103. Offered: Fall/Winter.

SOCIO 103 Introduction To Cultural Anthropology
An introduction to culture and the basic concepts of anthropology. Topics include kinship, language, and cultural change. also offered as ANTHRO 103. Offered: Fall/Winter.

SOCIO 201 Introduction To Social Psychology
Exploration of the relationships between human behavior and social context. The course focuses on how realities are socially constructed and sustained, the role of symbol systems, definitions of the situation, the self as a product of interaction, and the relationship between language, thought and culture.

SOCIO 201 Introduction To Social Psychology
Exploration of the relationships between human behavior and social context. The course focuses on how realities are socially constructed and sustained, the role of symbol systems, definitions of the situation, the self as a product of interaction, and the relationship between language, thought and culture.

SOCIO 201 Introduction To Social Psychology
Exploration of the relationships between human behavior and social context. The course focuses on how realities are socially constructed and sustained, the role of symbol systems, definitions of the situation, the self as a product of interaction, and the relationship between language, thought and culture.

SOCIO 202R Social Organization
This course focuses on the principles of social organization that undergird all human societies: social groups; age and gender differences; the institutions of family, economy, religion and polity; power; community and other units of residence; and social differentiation based on such factors as wealth and/or prestige. The focus of analysis is on the maintenance of social order, social change, and integration of society. Crosslisted with ANTHRO 202R. Prerequisite: SOC-SCI 101. Offered: Every semester.

SOCIO 203 Social Problems
An examination of major social problems of modern Western society, including issues of racial conflict, war, civil rights, youth movements, the mass media, urban poverty, and crime. The topics will vary from year to year depending upon the instructor.

SOCIO 203 Social Problems
An examination of major social problems of modern Western society, including issues of racial conflict, war, civil rights, youth movements, the mass media, urban poverty, and crime. The topics will vary from year to year depending upon the instructor.

SOCIO 203 Social Problems
An examination of major social problems of modern Western society, including issues of racial conflict, war, civil rights, youth movements, the mass media, urban poverty, and crime. The topics will vary from year to year depending upon the instructor.
SOCIO 203 Social Problems
An examination of major social problems of modern Western society, including issues of racial conflict, war, civil rights, youth movements, the mass media, urban poverty, and crime. The topics will vary from year to year depending upon the instructor.

SOCIO 205 The Social Life of Things
This course examines the ways anthropologists have studied the connections between people and things. It explores how social relationships are created and changed through the use and exchange of objects, and how objects themselves take on particular meanings and histories in these processes. In questioning the relationship between material culture and human sociality, the course will expose students to a range of ethnographic and historical case studies, as well as introduce them to some core theoretical perspectives and debates within anthropology.

SOCIO 208 The Social Life of Things
This course examines the ways anthropologists have studied the connections between people and things. It explores how social relationships are created and changed through the use and exchange of objects, and how objects themselves take on particular meanings and histories in these processes. In questioning the relationship between material culture and human sociality, the course will expose students to a range of ethnographic and historical case studies, as well as introduce them to some core theoretical perspectives and debates within anthropology.

SOCIO 211 Social And Psychological Development Through The Life Cycle
A survey of significant psychosocial issues, events and crises throughout the human life span. The life cycle of the family is examined as the primary context within which individual development occurs. Although the primary emphasis will be on normal adjustment and development, attention will also be given to the occurrence of special problems and deviations at each life stage. Fall/winter.

SOCIO 211 Social And Psychological Development Through The Life Cycle
A survey of significant psychosocial issues, events and crises throughout the human life span. The life cycle of the family is examined as the primary context within which individual development occurs. Although the primary emphasis will be on normal adjustment and development, attention will also be given to the occurrence of special problems and deviations at each life stage. Fall/winter.

SOCIO 211 Social And Psychological Development Through The Life Cycle
A survey of significant psychosocial issues, events and crises throughout the human life span. The life cycle of the family is examined as the primary context within which individual development occurs. Although the primary emphasis will be on normal adjustment and development, attention will also be given to the occurrence of special problems and deviations at each life stage. Fall/winter.

SOCIO 212 Global Health
This course will use the lens of critical medical anthropology to analyze the sources of poor health outcomes, health disparities, and the global impacts of health policy. Students will explore the connections between population health and other aspects of social life, such as power, inequality, war, and economics, exploring the ways in which globalization and the privatization of health creates conditions that facilitate disease.

SOCIO 300A Special Topics In Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given. Crosslisted with ANTH 300R.

SOCIO 300AAB Special Topics In Sociology

SOCIO 300AC Special Topics in Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given

SOCIO 300AG Special Topics in Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given

SOCIO 300BDA Special Topics in Sociology

SOCIO 300BF Special Topics in Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given.
SOCIOLO 300CF Special Topics in Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given.

SOCIOLO 300CG Special Topics in Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given.

SOCIOLO 300CH Special Topics in Sociology

SOCIOLO 300CT Special Topics in Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given

SOCIOLO 300CV Special Topics In Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given

SOCIOLO 300GF Special Topics in Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given

SOCIOLO 300LAA Special Topics in Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given.

SOCIOLO 300LYA Special Topics in Sociology

SOCIOLO 300MHS Special Topics in Sociology

SOCIOLO 300NA Special Topics in Sociology

SOCIOLO 300R Special Topics In Sociology
Each time this course is offered, a different area of sociology, to be announced, will be given. Also offered as ANTHRO 300R.

SOCIOLO 300RA Special Topics In Sociology

SOCIOLO 300RBD Special Topics In Sociology

SOCIOLO 300RCI Special Topics in Sociology

SOCIOLO 300RD Special Topics In Sociology

SOCIOLO 300RE Special Topics In Sociology

SOCIOLO 300RF Special Topics In Sociology

SOCIOLO 300RG Special Topics In Sociology

SOCIOLO 300RGE Special Topics In Sociology

SOCIOLO 300RGS Special Topics In Sociology
SOCIOL 300RH Special Topics In Sociology

SOCIOL 300RH Special Topics In Sociology

SOCIOL 300RJ Special Topics In Sociology

SOCIOL 300RJ Special Topics In Sociology

SOCIOL 300RK Special Topics In Sociology

SOCIOL 300RL Special Topics In Sociology

SOCIOL 300RL Special Topics In Sociology

SOCIOL 300RM Special Topics In Sociology

SOCIOL 300RN Special Topics In Sociology

SOCIOL 300RN Special Topics In Sociology

SOCIOL 300RO Special Topics In Sociology

SOCIOL 300ROBC Special Topics In Sociology

SOCIOL 300RP Special Topics In Sociology

SOCIOL 300RS Special Topics In Sociology

SOCIOL 300RSM Special Topics In Sociology

SOCIOL 300RT Special Topics In Sociology

SOCIOL 300RU Special Topics In Sociology

SOCIOL 300RV Special Topics In Sociology

SOCIOL 300RV Special Topics In Sociology

SOCIOL 300RVRB Special Topics In Sociology
SOCIOL 300RZ Special Topics In Sociology

SOCIOL 300SR Special Topics in Anthropology

SOCIOL 300SSR Special Topics in Sociology

SOCIOL 300ST Special Topics in Sociology

SOCIOL 302 Social Stratification
The distribution of power, privileges and prestige are examined in a historical and comparative perspective. The process whereby distribution systems develop, become institutionalized, and become transformed are analyzed. Offered: Fall.

SOCIOL 302 Social Stratification
The distribution of power, privileges and prestige are examined in a historical and comparative perspective. The process whereby distribution systems develop, become institutionalized, and become transformed are analyzed. Offered: Fall.

SOCIOL 302 Social Stratification
The distribution of power, privileges and prestige are examined in a historical and comparative perspective. The process whereby distribution systems develop, become institutionalized, and become transformed are analyzed. Offered: Fall.

SOCIOL 303 Cluster Course: Interdisciplinary Studies

SOCIOL 303CA Cluster Course: Perspectives In Science And Healing

SOCIOL 303CF Cluster Course: African And African American Women And Creativity

SOCIOL 303CO Cluster Course: Issues In Death And Dying
This course reviews historical and theoretical perspectives on death and dying. It explores the relationship of death to the social structure and culture in which it occurs, and examines interdisciplinary issues concerning death and contemporary society.

SOCIOL 303CP Cluster Course: Religion In America

SOCIOL 303CT Cluster Course: Healing And Cultural Diversity

SOCIOL 303CW Cluster Course: Critical Issues in Women's & Gender Studies
This class is an interdisciplinary upper-level course that will examine critical issues in women's and gender studies by focusing on the intersections of gender, race, class, sexuality, and social context. Through their study of these intersections, students will be more sensitive to the impact of social structures on gender and the experiences of women and men. This course may be cross-listed with CC Eng 300CW and/or Hist 400CW, depending on the semester.

SOCIOL 303CW Cluster Course: Critical Issues in Women's & Gender Studies
This class is an interdisciplinary upper-level course that will examine critical issues in women's and gender studies by focusing on the intersections of gender, race, class, sexuality, and social context. Through their study of these intersections, students will be more sensitive to the impact of social structures on gender and the experiences of women and men. This course may be cross-listed with CC Eng 300CW and/or Hist 400CW, depending on the semester.

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SOCIOL 305 Language and Culture
This course is designed to familiarize students with the basic objects, aims, and methods of linguistic anthropology. Students will acquire this familiarity by studying both theoretical and ethnographic articles that focus on some of the major areas of concern within the field including: the evolution of human language, linguistic particularity and universality, the relationship of language to thought, structuralism and semiotics, trope theory, language and emotion, sociolinguistics, the development of writing systems, and language conservation and change.

SOCIOL 305 Language and Culture
This course is designed to familiarize students with the basic objects, aims, and methods of linguistic anthropology. Students will acquire this familiarity by studying both theoretical and ethnographic articles that focus on some of the major areas of concern within the field including: the evolution of human language, linguistic particularity and universality, the relationship of language to thought, structuralism and semiotics, trope theory, language and emotion, sociolinguistics, the development of writing systems, and language conservation and change.

SOCIOL 306 Culture, Emotion, and Identity
This course introduces students to some of the key theoretical perspectives and debates within the field of psychological anthropology. By drawing upon cross-cultural studies of emotion, personhood, sexuality, illness, and consciousness it seeks to understand some of the ways that culture and society influence human psychology and experience.

SOCIOL 310R Families And The Life Course
This course is an upper level introduction examining the sociological, historical, and social psychological research on the family, focusing primarily on the United States. The course examines families of varied ethnicity, as well as family compositions at different stages of the life course. Emphasis is placed on the interdependence of family members, as well as how society and policy influence the family.

SOCIOL 313R Sociology Of Women
A study of family, community and career roles of women in contemporary society. Special attention is directed to the variety of their life patterns and dual roles made possible by a changing society. Fall/winter.

SOCIOL 314 Anthropology of Gender
This class explores theories of the social construction of gender in cross-cultural contexts. It will also explore global issues of local and international politics, the economy, work and education as these relate to gender.

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SOCIOL 316 Sociology Of Death And Dying
Examination of attitudes, behaviors and institutions related to death and dying in contemporary American society. Topics include the status of death in American society, effects of the setting on dying, interaction with the dying, funeral practices, bereavement customs, surviving spouse, and suicide.

SOCIOL 317 Policies Of Drug Use And Control
Utilizing both historical and contemporary information, this course provided an assessment of the "drug problem" in the U.S. and policies of control developed in response to the problem. Drug use criminalization, legalization, medical treatment and prevention strategies and related issues are considered in regard to scientific knowledge related to the patterns, causes and impact of substance abuse. Also offered as CJC 317. Annually.

SOCIOL 318 Sociology Of The Aging Woman
An exploration of the intersection of gender and aging issues with special attention to cultural images of women, the development of self-concept and identity in mid-life and beyond, caring roles in the family, work and retirement, and health and mental health issues. These issues are examined within the context of social class, race, and ethnicity. Implications for community programs and social policy are considered.

SOCIOL 319 Theoretical Criminology
A comprehensive examination of the major criminological theories, their philosophical assumptions, and the sociohistorical context in which they were articulated. Also offered as CJC 319.

SOCIOL 320 Social Deviance
The dominant sociological perspectives on deviance will be discussed with special attention given to the processes that define behavior and persons as deviant and the impact of such definitions on social relationships and identity.
SOCIOL 322 Race And Ethnic Relations
The nature, origin and dynamics of ethnic and race relations in the U. S. and other societies. Specific attention will be given to the historical and contemporary contexts of prejudice discrimination and confrontation. Also offered as ANTHRO 322. Offered: Fall/Winter.

SOCIOL 322 Race And Ethnic Relations
The nature, origin and dynamics of ethnic and race relations in the U. S. and other societies. Specific attention will be given to the historical and contemporary contexts of prejudice discrimination and confrontation. Also offered as ANTHRO 322. Offered: Fall/Winter.

SOCIOL 322 Race And Ethnic Relations
The nature, origin and dynamics of ethnic and race relations in the U. S. and other societies. Specific attention will be given to the historical and contemporary contexts of prejudice discrimination and confrontation. Also offered as ANTHRO 322. Offered: Fall/Winter.

SOCIOL 324 Diversity And You
This course will examine diversity from the perspectives of race, ethnicity, class and gender. Emphasis will be placed on the impact of racism, classism and sexism on interpersonal relationships and strategies to encourage diversity in schools, neighborhoods, and the work place. Students may also enroll in ”directed research” in conjunction with his course.

SOCIOL 324 Diversity And You
This course will examine diversity from the perspectives of race, ethnicity, class and gender. Emphasis will be placed on the impact of racism, classism and sexism on interpersonal relationships and strategies to encourage diversity in schools, neighborhoods, and the work place. Students may also enroll in ”directed research” in conjunction with his course.

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SOCIOL 327 Us Government's Indian Policies: Practices Of A Colonizing Nation
This class will convey information about the implementation of US government policies toward American Indians and how each of the policies, from treaty making, establishing reservations, removing, confronting tribes militarily, and abolishing reservations through allotment resulted in consequences detrimental to tribal welfare. The colonization process created ramifications and consequences that Indian people contend with to this day. This class will provide a historical overview of the consequences associated with political, social, and economic processes that divested Indian people of control over their lives and land they originally lived on. Also cross listed as ANTHRO 327.

SOCIOL 328 Body and Society
Body and Society is an interdisciplinary and comparative approach to the study of the body as the subject and object of social processes. Interdisciplinary approaches to topics such as meaning, ritual, performance, and practice will provide a framework for classical as well as contemporary explorations of bodily representation and experiences across a variety of cultural contexts. Prerequisite: Introduction to Cultural Anthropology

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SOCIOL 329 The Imagery Of The American Indian In Film
This course will trace the imagery of the American Indian used by film makers through the years and how this has played a role in reinforcing certain inaccurate perceptions of American Indian cultural, social, and economic life. The course examines the sociological implications created by persistently showing misrepresented images of American Indians. The goal is to measure and compare the reality of American Indian life (values, Traditions, and beliefs) with the images created by film makers from the
early years of the 20th century to the present. Also cross listed as ANTHRO 325.

**SOCIOL 331 Urban Anthropology**
A course designed to apply anthropological methods to the study of various urban environments. The approach to the subject is comparative, seeking to spell out those features of the urban setting which vary from culture to culture as well as those which are common to all. Crosslisted with ANTHRO 331. Offered: Fall.

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A course designed to apply anthropological methods to the study of various urban environments. The approach to the subject is comparative, seeking to spell out those features of the urban setting which vary from culture to culture as well as those which are common to all. Crosslisted with ANTHRO 331. Offered: Fall.

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**SOCIOL 332 Sociology Of Political Life**
The concept of power, community power structure and decision making. The social basis of liberal democracy; consensus and legitimacy; political stability and instability. Power and politics in a mass society; elites and masses; democracy and oligarchy; alienation; bureaucracy; pluralism and totalitarianism. Ideology and social movements.

**SOCIOL 335R Introduction To Social Work: Principles And Practice**
An introductory course to social work, its history and current role in the delivery of social welfare services. Designed to give the student insight into the body of knowledge, theory, values, principles, and techniques of the social work process. Investigation into the varieties of practice methods, i.e., casework, group work, community organization, and the present trend toward the generic approach. Fall/winter.

**SOCIOL 335R Introduction To Social Work: Principles And Practice**
An introductory course to social work, its history and current role in the delivery of social welfare services. Designed to give the student insight into the body of knowledge, theory, values, principles, and techniques of the social work process. Investigation into the varieties of practice methods, i.e., casework, group work, community organization, and the present trend toward the generic approach. Fall/winter.

**SOCIOL 336 Society And Community Service**
This course explores the history and increasing importance of the non-profit sector and volunteerism. Applying theoretical approaches from development and community organizing, the course analyzes the uses of volunteerism and NGOs nationally and internationally. Students' understanding will be enhanced through the inclusion of applied methods needed to manage a non-profit organization and by serving in an internship in a local non-profit during the semester.

**SOCIOL 337 Community Development In Urban America**
The focus in this course is on experiential learning in which the student participates in several urban community development projects that allow for learning about collaboratives, networking, problem-solving, and requisite skills to successfully manage a project. Principles of community development are presented to give the student background for understanding the projects visited.

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**SOCIOL 339 American Indian Leaders: Past And Present**
This course will examine the definition of leadership as it relates to American Indian issues. Consideration will be given to the nuances of leadership by examining the social, cultural economic, and political situations that gave cause for particular individuals to assume roles of Indian ranks with those practiced by non-indian leaders. It will trace the evolving nature of
leadership within tribal nations and American Indian communities from past to present, as well as looking at Indian leadership roles in time of war and peace. Lives of the major characters of American Indian historical record will be reviewed, such as Geronimo, Crazy horse, Sitting Bull, Osceola, Tecumseh, Pontic, Black Hawk, Quannah Parker, and Captain Jack. Also cross listed as ANTHRO 326.

**SOCIOL 340R Social Change**
Examines the key dimensions that bring about change in societies, including revolutions and evolutionary processes. Attention is given to the global context of social change, as well as the role of social actors and social movements. Crosslisted with (ANTH 340R or SOC 340R).

**SOCIOL 341R The Anthropology Of Economic Institutions**
Examines in a comparative perspective the social, cultural and political framework of economic activities. Emphasis is placed on socioeconomic systems and the contradictions they generate. Crosslisted with ANTHRO 341R.

**SOCIOL 343 Societies And Cultures Of Latin America**
A survey of emerging cultures and societies in Latin America; pre-history and geography; the Mayan, the Aztec and Incan civilizations; contemporary Indian, peasant and urban subcultures; the impact of forces such as migration, urbanization, peasant mobilization, and agrarian reform. Also offered as ANTHRO 343.

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**SOCIOL 346 Cultures Of The African Diaspora**
This course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion.

**SOCIOL 346 Cultures Of The African Diaspora**
This course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion.

**SOCIOL 347 The American Indian Image: Stereotype Vs. Reality**
This class will take a historical, sociological, and cultural approach to review how society at large views American Indians. The course will trace the origin and continued use of American Indian stereotyped views, and assess the sociological and psychological complications that result when judging Indians solely on stereotyped imagery. The course will review the histrical content of American Indian life as portrayed in early plays, films, and newspaper accounts and compare these stereotyped images with the reality of American Indian life by providing a depiction of a series of historical events that will offer a more balanced and accurate consideration for American Indian life past and present. Also cross listed as ANTHRO 327.

**SOCIOL 348 Latin American Immigrants & Refugees in the U.S.**
The course is an introduction to the study of the culture and societies of U.S. citizens and immigrants of Latin American heritage living in the U.S. The course emphasizes recent anthropological as well as historical and cultural studies. Topics covered: ethnohistory, and cultural diffusion over successive generations.

**SOCIOL 348 Latin American Immigrants & Refugees in the U.S.**
The course is an introduction to the study of the culture and societies of U.S. citizens and immigrants of Latin American heritage living in the U.S. The course emphasizes recent anthropological as well as historical and cultural studies. Topics covered: ethnohistory, and cultural diffusion over successive generations.

**SOCIOL 348 Latin American Immigrants & Refugees in the U.S.**
The course is an introduction to the study of the culture and societies of U.S. citizens and immigrants of Latin American heritage living in the U.S. The course emphasizes recent anthropological as well as historical and cultural studies. Topics covered: ethnohistory, and cultural diffusion over successive generations.

**SOCIOL 351 Gender, Work And Social Change**
This course examines the role of gendered work and consumption in global social change. Drawing from sociological perspectives on gender and work, this course foregrounds a global comparative analysis of societal development and working contexts, including tourism employment, sex work, domestic work, and agricultural, garment, and informatics production.
Academic-service learning constitutes a primary course assignment. Offered: Winter

**SOCIOL 361 Social Theory**  
A survey of the major orientations in social theory, their historical development, and contemporary issues and controversies in social theory. Prerequisite: 3 hours in social science.

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A survey of the major orientations in social theory, their historical development, and contemporary issues and controversies in social theory. Prerequisite: 3 hours in social science.

**SOCIOL 362 Methods Of Sociological Research**  
Experimental and observational schemes; survey analysis; interview and questionnaire designs; scaling techniques; sampling. Also offered as CJC 483. Prerequisites: 3 hours in Social Science.

**SOCIOL 362 Methods Of Sociological Research**  
Experimental and observational schemes; survey analysis; interview and questionnaire designs; scaling techniques; sampling. Also offered as CJC 483. Prerequisites: 3 hours in Social Science.

**SOCIOL 362 Methods Of Sociological Research**  
Experimental and observational schemes; survey analysis; interview and questionnaire designs; scaling techniques; sampling. Also offered as CJC 483. Prerequisites: 3 hours in Social Science.

**SOCIOL 363 Introduction To Statistics In Sociology/Criminal Justice**  
A first course in the statistical analysis of quantitative data. Course emphasizes descriptive statistics, probability theory, parameter estimation, bivariate hypothesis testing, and computer applications. Prerequisites: MATH 110, MATH 116 or an equivalent.

**SOCIOL 363 Introduction To Statistics In Sociology/Criminal Justice**  
A first course in the statistical analysis of quantitative data. Course emphasizes descriptive statistics, probability theory, parameter estimation, bivariate hypothesis testing, and computer applications. Prerequisites: MATH 110, MATH 116 or an equivalent.

**SOCIOL 363 Introduction To Statistics In Sociology/Criminal Justice**  
A first course in the statistical analysis of quantitative data. Course emphasizes descriptive statistics, probability theory, parameter estimation, bivariate hypothesis testing, and computer applications. Prerequisites: MATH 110, MATH 116 or an equivalent.

**SOCIOL 372 Introduction To The Sociology Of Religion**  
Using the tremendous diversity of religious belief and practice in North America, in particular new religious movements, this class will acquaint students with the academic study of religion as a social (and sociological) phenomenon. Students will learn how religion has been interpreted by sociologists in the past, and how evolving perspectives shape both the way academics perceive religion and how they study it. They will learn how religion permeates and affects virtually every domain of human culture and interaction. And they will gain experience in fieldwork, coming to understand in the process religious traditions other than those in which they may have been raised.

**SOCIOL 373 Anthropology of Religion**  
This course explores the ways anthropologist have gone about studying religion from the opening decades of the 20th century to present. The course introduces students to the diversity of human religious expression and experience through anthropological literature and to the diversity of anthropological expression especially as it has been revealed in social scientific studies of religious life. The course is designed to generate a critical dialogue about the special role that religion has played in the ongoing anthropological engagement with ""other"" societies and cultures over time.

**SOCIOL 373 Anthropology of Religion**  
This course explores the ways anthropologist have gone about studying religion from the opening decades of the 20th century to present. The course introduces students to the diversity of human religious expression and experience through anthropological literature and to the diversity of anthropological expression especially as it has been revealed in social scientific studies of religious life. The course is designed to generate a critical dialogue about the special role that religion has played in the ongoing
anthropological engagement with ""other"" societies and cultures over time

**SOCIOL 374 Anthropology of Childhood**
This course explores how children's lives are shaped by cultural, economic, and political forces and relations. Drawing upon a range of case studies and disciplinary perspectives it will consider how and why children emerge as sites of contestation and debate, and it will examine the various ways in which the category and experience of childhood unfold in different socio-historical contexts. The main objective of the course is to better understand the social construction of childhood and use the study of childhood as privileged window for exploring the articulation of cultural, economic and political relations within the context of contemporary global society. Offered: On-demand

**SOCIOL 381P Everyday Masculinities**
This independent study course is designed to encourage students to put into play their study of and growing understanding of men's lives. Each student will design and carry out an independent study/research project that will take into account (critically) the experience of at least three men in their immediate surroundings. Ethnographic methods (observation, field-note/interview and transcription strategies, write-up, etc.) will be covered to facilitate the student's successful completion of their project. The project will be broken down into phases to insure timely progress throughout the semester. Restrictions: Concurrent enrollment in Meanings of Masculinity required.

**SOCIOL 390R Directed Field Experience I**
The student will work within one or more social agencies or organizations in the city under the joint supervision of a professional within the organization and a member of the Sociology Department. In-class discussion will cover the major problems of social organization. Prerequisite: Consent of instructor.

**SOCIOL 390RA Directed Field Experience I**

**SOCIOL 391 Directed Field Experience II**
A continuation of SOCIOL 390. Winter.

**SOCIOL 397 Independent Readings In Sociology**
Intensive readings in an area selected by the student with prior consultation with instructor. Prerequisite: Twelve hours of sociology. On demand.

**SOCIOL 398 Independent Research In Sociology**
Intensive research in an area selected by the student with prior consultation with instructor. Prerequisite: Twelve hours of sociology. On demand.

**SOCIOL 404WI The Sociology Capstone: Senior Seminar**
A seminar which explores the interrelationships between sociology theory, research methods and statistics. May focus on major contemporary issues building on and integrating knowledge obtained in previous courses. This course is a writing intensive course and satisfies this requirement for the general degree requirements of the college. Prerequisites: SOCIOL 101, SOCIOL 361, SOCIOL 362, SOCIOL 363. Offered: Fall/Winter. Restrictions: Successful completion of the WEPT exam.

**SOCIOL 410R Aging In Contemporary Society**
Attitudes and stereotypes, the status of the aged in American society; the social psychology of the aging process; the response of societal institutions such as the family and political system to the aging of the population as a whole. Applications and potentials of research are considered.

**SOCIOL 411 Sociology Of Human Sexuality**
A cross cultural examination of the most fundamental dichotomy in human society: male and female. Considering sex both as a biological and social category, this course compares diversity and similarity in the interrelationships of male and female in patterns of behavior and social organization found in human societies across time and space.

**SOCIOL 416 Aging And Developmental Disabilities**
This course explores the experience of aging with a developmental disability or mental retardation within the context of normative aging. Among the comparisons made between older persons with and without developmental disabilities are their demographic characteristics, physical and cognitive functioning, role transitions and losses, identities and self-concepts, and family and caregiving issues. Policies, programs, and emerging concepts of best practices are considered within the context of quality of life, ethical, and community inclusion issues. Prerequisites: None. Offered: Summer.

**SOCIOL 417 Practicum In Aging And Developmental Disabilities**
Students gain experience in working with and defining issues of Older persons with developmental disabilities through
placements in sheltered workshops, senior centers, residential group homes, and other community-based programs. Prerequisites: None. Offered: Summer.

**SOCIOL 418 Feminist Theories**
This class introduces the major feminist theories and their primary authors over the last 200 years. The class takes both a historical view (beginning with two millennia of male-centered theories about women) and a conceptual approach (theories are grouped by common ground) and familiarizes the student with both the historical processes that necessitate feminist theories as well as with the breadth and depth of the historically and currently available scholarship. Prerequisite: Introduction to Women's Studies Offered: Winter Semester

**SOCIOL 430R Complex Organizations**
The sociology of complex organizations examines sociological theories and methods that explain what an organization is trying to accomplish and ways in which performance can be assessed. Emphasis will be on internal structures and processes of organizations, the organization's relationship to the individual and the organization's environment.

**SOCIOL 431 Social Organization Of The City**
An examination of the social structure of the American city with special reference to the historical development of American cities. Attention will be focused on the role of social institutions as they have changed in relation to urban problems.

**SOCIOL 433 Immigration and the City**
This course examines key issues and controversies in immigration research. Special attention will be paid to the social, economic, and historical developments of urban immigrant communities.

**SOCIOL 440R Sociology Of Medicine**
Relationship of basic concepts in sociology to health and medical care. Cultural and class variations in health status. Social and cultural aspects of health. Prerequisite: SOCIOL 101 or consent of instructor.

**SOCIOL 441 Globalization and Development**
Focuses on issues of economic development, social stratification, political institutions, and political mobilization in societies where colonialism provided the context for their long-term disadvantages in the international economic order. Specific attention is paid to the intersection of the international components that define the options and limits for societal development (e.g., market shifts, international institutions and contracts, foreign policies, and migration) and the distinct social, political and cultural implications of these factors for developing societies. Crosslisted with ANTHRO 441.
implications of these factors for developing societies. Crosslisted with ANTHRO 441.

Spanish (SPANISH)

**SPANISH 110** Elementary Spanish I
The goals of this course are an ability to speak and to understand simple (spoken) Spanish as well as to read and write simple prose. Every semester.

**SPANISH 120** Elementary Spanish II
Continuation of SPANISH 110. Prerequisite(s): Spanish 110 or equivalent. Every semester.

**SPANISH 211** Second Year Spanish I
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: SPANISH 120. Every semester.

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Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: SPANISH 120. Every semester.

**SPANISH 216** Spanish For The Health Sciences
This course will enable the student to converse with Hispanic patients and/or hospital personnel in situations such as admissions, patient care, lab work as ordered by a physician or dentist, emergency room procedures, etc. In addition, medical readings in Spanish will give professional and paraprofessional students an increased vocabulary related to the many fields within the health sciences. This course will satisfy one semester of the A&S language requirement. Prerequisite: one year of college Spanish or its equivalent.

**SPANISH 216** Spanish For The Health Sciences
This course will enable the student to converse with Hispanic patients and/or hospital personnel in situations such as admissions, patient care, lab work as ordered by a physician or dentist, emergency room procedures, etc. In addition, medical readings in Spanish will give professional and paraprofessional students an increased vocabulary related to the many fields within the health sciences. This course will satisfy one semester of the A&S language requirement. Prerequisite: one year of college Spanish or its equivalent.

**SPANISH 221** Second Year Spanish II
Continuation of SPANISH 211. Every semester.

**SPANISH 280** Special Intermediate Spanish Topics I
Instruction of Spanish on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

**SPANISH 290** Special Intermediate Spanish Topics II
Continuation of SPANISH 280. May not be repeated for credit. As needed.

**SPANISH 301** Introduction To Literary Studies
Emphasis will be placed on the study of literary theory and the philosophical ideas behind the literary movements, their relations and differences. A representative work or works of each genre will be thoroughly studied and analyzed. Critical reports will be written about different features of the literary works under consideration. Strongly recommended for all majors, to be taken
before 400-level literature courses. Prerequisite: SPANISH 315

**SPANISH 315** Intermediate Conversation And Composition I  
Grammar review, practice in speaking and writing Spanish; emphasis on idiomatic usage and practical vocabulary. Required for major. Prerequisite: SPANISH 221 or equivalent.

**SPANISH 315** Intermediate Conversation And Composition I  
Grammar review, practice in speaking and writing Spanish; emphasis on idiomatic usage and practical vocabulary. Required for major. Prerequisite: SPANISH 221 or equivalent.

**SPANISH 325** Intermediate Conversation And Composition II  
Continuation of SPANISH 315. Required for major. Prerequisite: SPANISH 315.

**SPANISH 325** Intermediate Conversation And Composition II  
Continuation of SPANISH 315. Required for major. Prerequisite: SPANISH 315.

**SPANISH 350** Continental Spanish Civilization  
General cultural characteristics of Spain. Readings from representative literary works.

**SPANISH 351** Latin American Civilization  
Historical development of Latin America. Readings from representative literary works.

**SPANISH 365** The Search For Mexican Identity  
The goal of the course is to familiarize the student with the poignant search for self awareness and definition witnessed in the letters and fine arts of Mexico in the 20th-century. Readings will include works by Vasconcelos, Reyes, Ramos, Paz, Rulfo and Fuentes, and will be complemented by slide presentations of pertinent works by major artists.

**SPANISH 373** History Of Spanish Literature I  
A study of the development of Spanish peninsular literature from the Middle Ages to 1700. Prerequisite: SPANISH 315 & SPANISH 325

**SPANISH 374** History Of Spanish Literature II  
A study of the development of Spanish peninsular literature from 1700 to present. Prerequisite: SPANISH 315 & SPANISH 325

**SPANISH 380** Special Topics  
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor.

**SPANISH 401** Introduction To Spanish American Literature I  
The colonial period. Selected readings in historical and literary material from the time of the conquest to the period of struggle for independence. On demand. Prerequisites: Spanish 315

**SPANISH 402** Introduction To Spanish American Literature II  
The 19th and 20th-centuries. Selected readings from prose and poetry of Spanish-American writers. On demand. Prerequisites: Spanish 315

**SPANISH 414** Early 20th Century Peninsular Literature: From the Generation of 1898 to Surrealism  
Selected readings in Spanish narrative, poetry, drama and philosophical essay from the beginning of the 20th Century to the Avant-Garde movements in the 1930's.

**SPANISH 415** Advanced Conversation And Composition I  
Continued practice in speaking and writing Spanish, with attention to the elements of style. Continued in SPANISH 425. First semester required of all majors and second semester recommended. Both semesters required of prospective high school teachers. Either or both semesters may be repeated with the consent of the instructor and the Spanish section head. No more than six hours credit may be applied towards a degree. Prerequisite: SPANISH 325. Offered: Every fall.

**SPANISH 416** Medieval Spanish Literature  
From the Cantar de Mio Cid to 1499. Winter.

**SPANISH 417** Spanish-American Lyric Poetry  
A survey of poetry in Spanish America from Colonial times to World War II, including a study of the most representative poets
and their writings. Winter.

**SPANISH 418** Romantic Movement In Spain  
The origin and development of romantic literature against the historical and ideological background of the first half of the 19th century. Various literary genres will be studied; these will include works by Rivas, Espronceda, Larra, Zorrilla, Gil y Carrasco, Becquer and others.

**SPANISH 420** Cervantes' Don Quixote, Part I  
An intensive reading of the first part of Cervantes' novel, Don Quixote.

**SPANISH 421** Cervantes/Don Quixote, Part II  
An intensive reading of the second part of Cervantes' novel, Don Quixote. Part One is not a prerequisite. Also offered as SPANISH 5521.

**SPANISH 421** Cervantes/Don Quixote, Part II  
An intensive reading of the second part of Cervantes' novel, Don Quixote. Part One is not a prerequisite. Also offered as SPANISH 5521.

**SPANISH 425** Advanced Conversation And Composition II  

**SPANISH 426** Golden Age Drama  
The development of the Spanish drama from Lope's youth to the death of Calderon. Also offered as SPANISH 5526.

**SPANISH 426** Golden Age Drama  
The development of the Spanish drama from Lope's youth to the death of Calderon. Also offered as SPANISH 5526.

**SPANISH 427** Pre-Columbian And Spanish Colonial Literature  
A study of the pre-Columbian works in drama, narrative, and poetry (Popol Vuh, Apu-Ollantay, Incan and Aztec poetry) leading into a survey of Spanish-American colonial literature. Also offered as SPANISH 5527.

**SPANISH 427** Pre-Columbian And Spanish Colonial Literature  
A study of the pre-Columbian works in drama, narrative, and poetry (Popol Vuh, Apu-Ollantay, Incan and Aztec poetry) leading into a survey of Spanish-American colonial literature. Also offered as SPANISH 5527.

**SPANISH 428** Contemporary Spanish Poetry  
A comprehensive and intensive study of 20th-century Spanish poetry. Poets and poetry will be studied in the light of literary movements, foreign influences, political tendencies and philosophical ideas. Also offered as SPANISH 5528.

**SPANISH 428** Contemporary Spanish Poetry  
A comprehensive and intensive study of 20th-century Spanish poetry. Poets and poetry will be studied in the light of literary movements, foreign influences, political tendencies and philosophical ideas. Also offered as SPANISH 5528.

**SPANISH 429** The Novel Of The Mexican Revolution  
The revolution as the principal focus of 20th-century Mexican fiction. The course will examine both the evolving understanding of the event/process and the sophistication of narrative technique employed in its presentation. Among the writers to be studied are Azuela, Guzman, Lopez y Fuentes, Yanez, Revueltas, Rulfo and Fuentes. Also offered as SPANISH 529.

**SPANISH 429** The Novel Of The Mexican Revolution  
The revolution as the principal focus of 20th-century Mexican fiction. The course will examine both the evolving understanding of the event/process and the sophistication of narrative technique employed in its presentation. Among the writers to be studied are Azuela, Guzman, Lopez y Fuentes, Yanez, Revueltas, Rulfo and Fuentes. Also offered as SPANISH 529.

**SPANISH 430** Spanish Mysticism  
An examination of the development of mysticism in Oriental and Occidental civilizations, with emphasis on the great periods of mystic experience as reflected in the literary production of the Spanish Golden Age. Readings could include the works of Fray Luis de Granada, Fray Luis de Leon, Saint John of the Cross and Saint Teresa of Avila. Also offered as SPANISH 5530.

**SPANISH 430** Spanish Mysticism  
An examination of the development of mysticism in Oriental and Occidental civilizations, with emphasis on the great periods of mystic experience as reflected in the literary production of the Spanish Golden Age. Readings could include the works of Fray
Luis de Granada, Fray Luis de Leon, Saint John of the Cross and Saint Teresa of Avila. Also offered as SPANISH 5530.

SPANISH 431 The Golden Age Novel
A study of major prose works of the Golden Age. Possible topics include authorship, innovative narrative techniques, textual strategies and metatextual issues. Readings could include works by Alfonso Martinez de Toledo, Diego de San Pedro, Fernando de Rojas, Francisco Delicado, Cervantes, and Lope de Vega. Also offered as SPANISH 5531.

SPANISH 431 The Golden Age Novel
A study of major prose works of the Golden Age. Possible topics include authorship, innovative narrative techniques, textual strategies and metatextual issues. Readings could include works by Alfonso Martinez de Toledo, Diego de San Pedro, Fernando de Rojas, Francisco Delicado, Cervantes, and Lope de Vega. Also offered as SPANISH 5531.

SPANISH 432 Pastoral Literature
A study of the development of pastoral literature during the Spanish Golden Age. Possible texts: Juan del Encina's Eclogues, Montemayor's Los siete libros de la Diana and Cervantes' Galatea. These works will be examined within their historical and cultural context. Also offered as SPANISH 5532.

SPANISH 432 Pastoral Literature
A study of the development of pastoral literature during the Spanish Golden Age. Possible texts: Juan del Encina's Eclogues, Montemayor's Los siete libros de la Diana and Cervantes' Galatea. These works will be examined within their historical and cultural context. Also offered as SPANISH 5532.

SPANISH 433 Cervantes' Exemplary Novels
A study of Cervantes' Exemplary Novels within the context of 17th-Century Spain. Attention will be paid to interpretive possibilities and how knowledge of historical contexts might influence readings of this rich and varied cultural output. Also offered as SPANISH 5533.

SPANISH 433 Cervantes' Exemplary Novels
A study of Cervantes' Exemplary Novels within the context of 17th-Century Spain. Attention will be paid to interpretive possibilities and how knowledge of historical contexts might influence readings of this rich and varied cultural output. Also offered as SPANISH 5533.

SPANISH 434 The Picaresque Novel
A study of the development of picaresque fiction during the Spanish Golden Age. The course deals with novelists principally active during the Baroque period such as Mateo Aleman, Francisco Lopez de Ubeda, Miguel de Cervantes, and Francisco de Quevedo. Also offered as Spanish 5534.

SPANISH 434 The Picaresque Novel
A study of the development of picaresque fiction during the Spanish Golden Age. The course deals with novelists principally active during the Baroque period such as Mateo Aleman, Francisco Lopez de Ubeda, Miguel de Cervantes, and Francisco de Quevedo. Also offered as Spanish 5534.

SPANISH 435 Peninsula Poetry
This course is a survey of poetics and poetry in Spain from the Reconquest to the present, with emphasis on socio-historical contexts and movements. It examines theoretical and methodological approaches to literary analysis and also provides practical experience in exploring poetic texts. Students will analyze a wide spectrum of poems, while discussing the cultural, philosophical, linguistic, political and ethical considerations that surround the reception of a text.

SPANISH 436 Spain's Transition to Democracy: Literature and Film
This course reviews the cultural production between the death of Francisco Franco in 1975 and the entrance in the European Union in film, literature and music, within its historical and political context.

SPANISH 450 Modern Classics Of Latin American Literature
The goal of the course is to familiarize the student with the principal Latin American writers of the modern period. The focus will be dual: the progressive sophistication of literary technique and the refinement of social conscience. Among the authors to be studied are: Asturias, Borges, Carpentier, Cortazar, Donoso, Fuentes, Garcia Marquez, Paz, Rulfo and Vargas Llosa. Also offered as SPANISH 5550.

SPANISH 450 Modern Classics Of Latin American Literature
The goal of the course is to familiarize the student with the principal Latin American writers of the modern period. The focus will be dual: the progressive sophistication of literary technique and the refinement of social conscience. Among the authors to be studied are: Asturias, Borges, Carpentier, Cortazar, Donoso, Fuentes, Garcia Marquez, Paz, Rulfo and Vargas Llosa. Also offered
as SPANISH 5550.

**SPANISH 453** Spanish-American Short Story
A study of Spanish-American short stories from Romanticism to the present. Also offered as SPANISH 5553.

**SPANISH 453** Spanish-American Short Story
A study of Spanish-American short stories from Romanticism to the present. Also offered as SPANISH 5553.

**SPANISH 460** U.S.-Latino Literature
An interdisciplinary approach to U.S.-Latino Studies, including both literary and cultural texts. The course will be taught in English, the language in which the texts are produced. Also offered as SPANISH 5560.

**SPANISH 460** U.S.-Latino Literature
An interdisciplinary approach to U.S.-Latino Studies, including both literary and cultural texts. The course will be taught in English, the language in which the texts are produced. Also offered as SPANISH 5560.

**SPANISH 480** Special Topics
Each time this course is offered a particular genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Offered: On demand.

**SPANISH 480A** Special Topics
Each time this course is offered a particular genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Offered: On demand.

**SPANISH 490** Special Readings
Intensive readings in field or literary figure to be selected by the student in consultation with the instructor. Available, by permission only, to advanced students of Spanish; available only when student cannot take regularly scheduled courses. Prerequisite: 3.0 GPA. On demand.

**SPANISH 499** Senior Seminar (Capstone)
Required for major. Covers seminal works of Peninsular and Latin American literature in their historical and cultural context. Course content varies, but will include such elements as geography, politics, folklore, history of the language, architecture, art and music. To be taken during final Fall Semester of residence. Prerequisite: 18 hours beyond first year Offered: Fall

**SPANISH 499** Senior Seminar (Capstone)
Required for major. Covers seminal works of Peninsular and Latin American literature in their historical and cultural context. Course content varies, but will include such elements as geography, politics, folklore, history of the language, architecture, art and music. To be taken during final Fall Semester of residence. Prerequisite: 18 hours beyond first year Offered: Fall

**Statistics (STAT)**

**STAT 234** Mathematics For Teachers: Probability And Statistics
Designed for elementary-and middle-school mathematics teachers. Foundational knowledge of probability and statistics, elements of statistics, organizing, displaying and describing data, probability distributions, correlation, regression, prediction, estimation. Prerequisites: 4 units of high school math or Math 110.

**STAT 234** Mathematics For Teachers: Probability And Statistics
Designed for elementary-and middle-school mathematics teachers. Foundational knowledge of probability and statistics, elements of statistics, organizing, displaying and describing data, probability distributions, correlation, regression, prediction, estimation. Prerequisites: 4 units of high school math or Math 110.

**STAT 235** Elementary Statistics
An introduction to descriptive and inferential statistics. Organization and presentation of data, averages and variations, elementary probability, random variables, special discrete distributions, normal distributions, sampling distributions, point estimation, confidence intervals, and hypothesis testing. Credit will not be given for both STAT 235 and STAT 236. Prerequisite: 4 units high school math or MATH 110.

**STAT 235** Elementary Statistics
An introduction to descriptive and inferential statistics. Organization and presentation of data, averages and variations, elementary probability, random variables, special discrete distributions, normal distributions, sampling distributions, point estimation, confidence intervals, and hypothesis testing. Credit will not be given for both STAT 235 and STAT 236. Prerequisite:
4 units high school math or MATH 110.

STAT 236 Applied Statistics For Public Administration
Designed for students in business, public administration, and urban studies; will cover descriptive and inferential statistics, elementary probability, analysis of nominal and ordinal data, regression analysis; will use a statistical software package to apply the tools of statistics and answer quantitative questions. Credit will not be given for both STAT 235 and STAT 236. Prerequisite: 4 units high school math or MATH 110

STAT 236 Applied Statistics For Public Administration
Designed for students in business, public administration, and urban studies; will cover descriptive and inferential statistics, elementary probability, analysis of nominal and ordinal data, regression analysis; will use a statistical software package to apply the tools of statistics and answer quantitative questions. Credit will not be given for both STAT 235 and STAT 236. Prerequisite: 4 units high school math or MATH 110

STAT 436 Introduction To Mathematical Statistics I
Sample space, conditional probability, random variables, probability distribution functions and probability densities; transformations of random variables, mathematical expectation, conditional distributions and expectations, laws of large numbers and limit theorems, applications. Prerequisite: MATH 250.

STAT 441 Introduction To Mathematical Statistics II
Sampling Distributions; point estimation; internal estimation; hypothesis testing; analysis of variance; nonparametric methods; statistical software applications; topics in Applied Statistics. Prerequisites: STAT 436.

Theatre (THEATRE)
THEATRE 100 Topical Studies In Theatre Practice
(A, B, C, D) This course provides students with an opportunity to explore special offerings in theatre practice. No prerequisite. Does not fulfill general education course requirement in the Fine Arts or Humanities. May count for elective credit in the Theatre major. Different sections of the course may be repeated. On demand.

THEATRE 100 Topical Studies In Theatre Practice
(A, B, C, D) This course provides students with an opportunity to explore special offerings in theatre practice. No prerequisite. Does not fulfill general education course requirement in the Fine Arts or Humanities. May count for elective credit in the Theatre major. Different sections of the course may be repeated. On demand.

THEATRE 101 Introduction To Acting
An introductory course to acquaint the freshman theatre major and non-major student with the process of acting through relaxation and improvisational exercise.

THEATRE 113 Introduction To Technical Production
An introduction to the technical production process with emphasis on production organization, planning and scenic construction techniques. Required laboratory work.

THEATRE 121 Oral Interpretation Of Literature

THEATRE 130 Foundations Of Fine Arts Theatre
An introduction to theatre arts and a general orientation to the creative and technical aspects of live performance. Includes historical overview, analysis of the components of a play, and observation of and critical reaction to theatrical productions. Frequent guest speakers.

THEATRE 180 Theatre Production I
A practicum course in theatre to be elected for one credit each semester during the freshman and sophomore years. The student will be assigned to a different area each semester. High school students may elect for college credit. Every semester.

THEATRE 210 Introduction To Design For The Theater
An introduction to aesthetics and design for the theater in the areas of scenery, costume, lighting and sound. The emphasis is upon the theory, vocabulary, form, style, historical influences and process in each area. Attendance at theater productions is required. Course is taught by design faculty from each area.
THEATRE 295 Speech For The Theatre I
Training in voice and articulation and the techniques of adaptation to the needs of the artist-performer in the theatre: exercises to free the voice, develop effective breathing, tone production, articulation, flexibility of vocal production, and projection.

THEATRE 295B Speech For The Theater I

THEATRE 298 Movement For Actors
Basic movement training including relaxation and alignment techniques, exercises to increase physical facility and skills to enhance rhythmic coordination and physical characterization. THEATER 298A prerequisite for THEATER 298B. Fall/winter.

THEATRE 300 Acting I
Basic principles of dramatic performance: training in voice, movement and language as an organic developmental whole.

THEATRE 300 Acting I
Basic principles of dramatic performance: training in voice, movement and language as an organic developmental whole.

THEATRE 300CH Cluster Course: Healing And The Arts
This course explores the healing potential of theatre fine arts, music and narrative literature in the lives of their creators, those who experience the works of art and in society as a whole. This course fulfills the Cluster Course Requirement. Prerequisite: None Offered: Winter Semester

THEATRE 300CR Interdisciplinary Studies: Special Topics
Faculty from at least two different departments (one of which must be a department in the division of humanities, including history) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the programs advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A. Winter.

THEATRE 300CS Cluster Course: History Of Russian Culture

THEATRE 315 Acting II
Textual analysis, characterization and building a role. Prerequisite: Acting I (THEATER 300).

THEATRE 315 Acting II
Textual analysis, characterization and building a role. Prerequisite: Acting I (THEATER 300).

THEATRE 317 Scene Design
Introduces the mechanics of layout: perspective, basic drafting techniques, front elevation and floorplan execution. Second half of the semester emphasizes scenic design as an art form. Prerequisite: THEATER 113 (THEATER 4311 recommended) or consent of instructor.

THEATRE 325 Acting III
Study and practice of period and contemporary styles of acting. Prerequisite: Acting II (THEATER 315). Each semester.

THEATRE 325 Acting III
Study and practice of period and contemporary styles of acting. Prerequisite: Acting II (THEATER 315). Each semester.

THEATRE 329 Master Class In Acting
(A,B,C,D) Class in advanced studies in acting. May be repeated for credit up to eight hours and guest artist change. Prerequisite: Acting III.

THEATRE 331 Advanced Oral Interpretation
Oral interpretation of poetry and prose. Careful analysis of selected masterpieces as art forms and an application of the aesthetic discipline to the oral reading of literature.

THEATRE 333 History Of Costuming I
The study of the history of European costume, with emphasis on the social and economic ramifications of costuming through the ages.

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The study of the history of European costume, with emphasis on the social and economic ramifications of costuming through the
ages.

THEATRE 340 Stage Makeup
Lecture and laboratory work in the fundamentals of makeup for the stage.

THEATRE 350 Theatre History I
Development of theatre art, including the physical stage, technical production elements, dramatic literature, and audience behavior from primitive origins to the 18th century.

THEATRE 350 Theatre History I
Development of theatre art, including the physical stage, technical production elements, dramatic literature, and audience behavior from primitive origins to the 18th century.

THEATRE 351WI Theatre History II
Development of Theatre art, including the physical stage, technical production elements, dramatic literature, and audience behavior from the 18th century to the present.

THEATRE 352 History Of Costuming II
The study of the history of Non-European costume, with emphasis on the social and economic ramifications of costuming through the ages.

THEATRE 352 History Of Costuming II
The study of the history of Non-European costume, with emphasis on the social and economic ramifications of costuming through the ages.

THEATRE 371 Stage Lighting
First half of the course introduces the student to the technical aspects of stage lighting through lectures, laboratory and crew work. Second half of semester involves the student in the fundamentals of design theory and procedure.

THEATRE 373 Master Class In Technology
Class in advanced studies in technology. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required.

THEATRE 378 Stage Management I
A functional analysis of the duties and responsibilities of the stage manager, with particular reference to the organization and conducting of rehearsals and performances, professional practices and union requirements. Requires student to be an assistant to a stage manager on a University or an KC Rep production. The first of a two-semester requirement in stage management for theater majors.

THEATRE 379 Master Class In Design
Class in advanced studies in design. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required. Undergraduate students elect THEATER 379.

THEATRE 380 Theatre Production II
(A,B,C,D) A practicum course in theatre to be taken one hour each of the last four semesters. The student will work in various areas each semester, to be selected from: (1) scenery construction, (2) scene painting, (3) stage crew, (4) wardrobe, (5) properties, (6) lighting, (7) house management, (8) assistant stage management. As advanced theatre majors, each student will be expected to accept crewhead responsibilities and demonstrate proficiency in the areas selected. Prerequisite:THEATER 113. Fall/winter/summer.

THEATRE 395 Speech For The Theatre II
(C,D) Theatre 395 is a continuation of Theatre 295. The objective of these classes is: training in voice and articulation and the techniques of adaptation to the needs of the artist performer in the theatre: exercises to free the voice, develop effective breathing, tone production, articulation, flexibility of vocal production, and projection. Prerequisites: THEATER 295A and THEATER 295B.

THEATRE 400 Special Problems In Theatre
(A-M) Research and/or production projects for advanced upperclass students. No more than three hours with any one instructor. Prerequisite: Consent of instructor. (A) Acting; (B) Children's Theatre; (C) Costumes; (D) Scenic Design; (E) Directing; (F) History; (G) Lighting; (H) Playwriting; (I) Sound; (J) Stage Management; (K) Technical Production (L) Theatre Management; (M) Theory and Criticism.
THEATRE 400A Special Problems In Theatre: Acting

THEATRE 400B Special Problems In Theatre: Design

THEATRE 400C Special Problems In Theatre: Costumes

THEATRE 400CC The Practice and Theory of Creativity - Cluster Course
A team taught multidisciplinary course for undergraduate students that fosters awareness of the nature and power of creativity. One third of the class covers current literature on the creative process. The remainder uses arts as a catalyst for creative individual and group projects that foster communication and remove barriers to creativity. Throughout the course processes are taught which integrate creativity with the discipline necessary to realize the creative objective. Cross-listed with CONSVTY 434CH

THEATRE 400CH Special Problems In Theatre

THEATRE 400D Special Problems In Theatre: Scenic Design

THEATRE 400E Special Problems In Theatre: Directing

THEATRE 400F Special Problems In Theatre: History

THEATRE 400G Special Problems In Theatre: Lighting

THEATRE 400H Special Problems In Theatre: Playwriting

THEATRE 400I Special Problems In Theater: Sound

THEATRE 400J Special Problems In Theatre: Stage Management

THEATRE 400K Special Problems In Theatre: Technical Production

THEATRE 400L Special Problems In Theatre: Theatre Management

THEATRE 400M Special Problems In Theatre: Theory And Criticism

THEATRE 400N Special Problems In Theatre: Dramaturgy

THEATRE 400P Special Problems: Storytelling Art And Technique

THEATRE 400R Special Problems In Theatre

THEATRE 400S Special Topics In Theatre
THEATRE 400T Special Problems In Theatre

THEATRE 400U Special Topics In Theatre

THEATRE 400V Special Problems in Theater

THEATRE 400X Special Problems In Theatre

THEATRE 401CH Cc: The Practice And Study Of Creativity
This cluster course will provide students with a deep understanding of the mechanics value power and challenges of creativity in all aspects of their lives, allowing them to continually adapt themselves to a rapidly changing world and to become outstanding community leaders. The class will foster awareness of the nature and power of students' creativity from three different perspectives: visual arts/art history, theatre/dance, and music composition/performance. This course is cross-listed with CONSVTY 497CH.

THEATRE 403 Theatre Company & Production
This course serves (1) as a weekly company meeting for Theatre majors, (2) an organizing point for production assignments and duties for the semester, and (3) a study of a special topic which will change each semester. Fall and Spring only. Course is repeatable. Required of Majors for every semester they are enrolled. Restricted to Majors and Minors.

THEATRE 403 Theatre Company & Production
This course serves (1) as a weekly company meeting for Theatre majors, (2) an organizing point for production assignments and duties for the semester, and (3) a study of a special topic which will change each semester. Fall and Spring only. Course is repeatable. Required of Majors for every semester they are enrolled. Restricted to Majors and Minors.

THEATRE 415 Beginning Directing
Theory and process of play production, including interpretation, composition, picturization, movement, rhythm, and character interpretation.

THEATRE 418 History of American Musical Theatre
A survey of trends in the American musical theatre from the 18th century to the present. This course includes material on creators and repertory in addition to the discussions of stylistic, analytical, social, aesthetic, and commercial aspects of musical theatre.

THEATRE 418 History of American Musical Theatre
A survey of trends in the American musical theatre from the 18th century to the present. This course includes material on creators and repertory in addition to the discussions of stylistic, analytical, social, aesthetic, and commercial aspects of musical theatre.

THEATRE 425 Advanced Directing
Continuation of work in Theatre 415, with special attention to proscenium, arena, and thrust staging techniques. Prerequisite: THEATER 415 or equivalent experience.

THEATRE 425 Advanced Directing
Continuation of work in Theatre 415, with special attention to proscenium, arena, and thrust staging techniques. Prerequisite: THEATER 415 or equivalent experience.

THEATRE 431 Rendering Techniques For The Theatre Designer I
Introduces the mechanics of handling black and white media to develop three-dimensional technique with an emphasis on observational training and object drawing.

THEATRE 432 Costume Design
The practice of the theatrical costume design, leading to the preparation of designs for production, and the execution of designs in actual costuming for the stage.

THEATRE 432A Costume Design
THEATRE 432B Costume Design

THEATRE 432C Costume Design

THEATRE 432D Costume Design

THEATRE 437 Playwriting I
Theory and practice of writing for the theatre with emphasis on the basic techniques.

THEATRE 438 Playwriting II
Theory and practice of writing for the theatre with emphasis on advanced techniques.

THEATRE 476 Theatre Sound And Electronics
Study of electronic principles used in audio and control devices. Concentrates on applying knowledge to using the equipment employed in the theatre such as sound-effect systems, inter-communication equipment, and includes a special section on the creation of sound and music for theatre productions.

THEATRE 478 Stage Management II
Practicum course in stage management. Requires stage management of a University production and/or assistant stage management of an KC Rep production and/or assistant stage management of a main stage University production. Prerequisite: THEATER 378 or consent of instructor. Fall/ winter/summer.

THEATRE 489 Seminar In Professional Theatre
This course shall be conducted by a visiting artist who is in residence with either Kansas City Repertory Theatre or the academic theatre. Both student work and the work of the visitor shall be analyzed and criticized in this semester. Fall.

THEATRE 489 Seminar In Professional Theatre
This course shall be conducted by a visiting artist who is in residence with either Kansas City Repertory Theatre or the academic theatre. Both student work and the work of the visitor shall be analyzed and criticized in this semester. Fall.

THEATRE 497 Repertory Theatre
Apprentice-level responsibilities for Theatre 497 are as follows: apprentices will be used in as many production areas as possible: (1) as actors in small roles and/or extras or supers; (2) as understudies if possible; (3) as needed in the following departments: (a) properties; (b) carpentry and the shop; (c) lighting; (d) costumes; (e) house management; (f) stage management; (g) running crews. Prerequisite: Selection for apprenticeship by departmental chairman. Each semester.

Urban Planning and Design (UPD)
UPD 101 Introduction To Urban Studies
This lecture and discussion course provides the undergraduate student with an overview of the interdisciplinary field of urban social science. The student who successfully completes this course will have a broad understanding of the major issues, vocabulary, basic methods, and prominent scholars in urban studies. We will also explore current events of relevance, including the opportunities and problems facing major cities in the United States including Kansas City. Also cross listed as URBAN ST 101.

UPD 101 Introduction To Urban Studies
This lecture and discussion course provides the undergraduate student with an overview of the interdisciplinary field of urban social science. The student who successfully completes this course will have a broad understanding of the major issues, vocabulary, basic methods, and prominent scholars in urban studies. We will also explore current events of relevance, including the opportunities and problems facing major cities in the United States including Kansas City. Also cross listed as URBAN ST 101.

UPD 203 GIS For Urban Planning
This introductory level GIS course is designed to expose planning students to Geographical Information Systems (GIS). Students will learn basic concepts and theories of GIS and applications of GIS software with hands-on experience. Students will also learn how to search for demographic, socio-economic, land use, transportation, and geospatial data, and how to use such data for their academic research and professional planning work with GIS. Students will apply GIS to the multiple scales of planning work.
UPD 203 GIS For Urban Planning
This introductory level GIS course is designed to expose planning students to Geographical Information Systems (GIS). Students will learn basic concepts and theories of GIS and applications of GIS software with hands-on experience. Students will also learn how to search for demographic, socio-economic, land use, transportation, and geospatial data, and how to use such data for their academic research and professional planning work with GIS. Students will apply GIS to the multiple scales of planning work.

UPD 260 History Of Planning And Urban Design
An overview of planning history with an emphasis on the 19th and 20th centuries. The historic framework will include urban history, the rise and development of urban planning, urban design, and social theory and how these areas have affected the shape of our cities.

UPD 260 History Of Planning And Urban Design
An overview of planning history with an emphasis on the 19th and 20th centuries. The historic framework will include urban history, the rise and development of urban planning, urban design, and social theory and how these areas have affected the shape of our cities.

UPD 280 Land Use Planning
This course explores the basic principles of plan making, land use development and regulation. Students are introduced to contemporary planning and policy issues. Including land use conflicts and alternative models for sustainable planning, design and management. Students will learn how to develop a land use plan using Geographic Information Systems (GIS) and other design tools. An introductory GIS course (UPD 203) is highly recommended.

UPD 280 Land Use Planning
This course explores the basic principles of plan making, land use development and regulation. Students are introduced to contemporary planning and policy issues. Including land use conflicts and alternative models for sustainable planning, design and management. Students will learn how to develop a land use plan using Geographic Information Systems (GIS) and other design tools. An introductory GIS course (UPD 203) is highly recommended.

UPD 300 Quantitative Planning Methods And Techniques
Statistical analysis and other analytic techniques of data gathering. Data and problems framed from complex, real world situations. Competence in firsthand research; survey design; case study method; data gathering methods such as observation, open-ended interviewing and questionnaires.

UPD 300 Quantitative Planning Methods And Techniques
Statistical analysis and other analytic techniques of data gathering. Data and problems framed from complex, real world situations. Competence in firsthand research; survey design; case study method; data gathering methods such as observation, open-ended interviewing and questionnaires.

UPD 310 Planning And Design Studio I
The urban planning and design studio will introduce to the student a methodology of designing urban spaces. Students will actively participate in problem solving and determine the physical shaping of communities and cities, while developing abilities in graphic methods of communication and Presentation. The application of principles of urban design, social, political, cultural, economic and environmental considerations will help inform solutions. Students will have the opportunity to work interactively with a wide spectrum of professionals, neighborhood leaders, and political entities in developing strategies for solutions to real urban situations. Prerequisite: ENV-DSN 201/202 with a grade of C- or better Restrictions: Consent of Department

UPD 310 Planning And Design Studio I
The urban planning and design studio will introduce to the student a methodology of designing urban spaces. Students will actively participate in problem solving and determine the physical shaping of communities and cities, while developing abilities in graphic methods of communication and Presentation. The application of principles of urban design, social, political, cultural, economic and environmental considerations will help inform solutions. Students will have the opportunity to work interactively with a wide spectrum of professionals, neighborhood leaders, and political entities in developing strategies for solutions to real urban situations. Prerequisite: ENV-DSN 201/202 with a grade of C- or better Restrictions: Consent of Department

UPD 312 Planning And Design Studio II
This course integrates material from Quantitative Planning Methods and Techniques (UPD 300). Instruction in urban planning and design focusing on the synthesis of land use analyses, regulatory reviews, urban design issues, and public participation facilitation. Continued instruction in techniques for visually presenting planning and design ideas. Prerequisite(s) UPD 300, UPD 310 with a grade of C- or better Restrictions: Consent of Department

UPD 312 Planning And Design Studio II
This course integrates material from Quantitative Planning Methods and Techniques (UPD 300). Instruction in urban planning and design focusing on the synthesis of land use analyses, regulatory reviews, urban design issues, and public participation facilitation. Continued instruction in techniques for visually presenting planning and design ideas. Prerequisite(s) UPD 300, UPD 310 with a grade of C- or better Restrictions: Consent of Department
and design focusing on the synthesis of land use analyses, regulatory reviews, urban design issues, and public participation facilitation. Continued instruction in techniques for visually presenting planning and design ideas. Prerequisite(s) UPD 300, UPD 310 with a grade of C- or better Restrictions: Consent of Department

UPD 320 Planning Theory And Practice
This course examines contemporary urban planning and design practice. Theories about planning practice and related case studies will be the basis of this course. Topics covered will include the definition of urban planning, the idea of the "public realm," planning/design expertise and the rational model, the role of diversity, public participation, communicative planning, advocacy and equity planning, ethics comprehensiveness and the limits of planning. The course will include assignments that will build student's ability to write quick and analytical assessments, often required in planning practice. Students will be required to attend public planning forums in and around the region.

UPD 320 Planning Theory And Practice
This course examines contemporary urban planning and design practice. Theories about planning practice and related case studies will be the basis of this course. Topics covered will include the definition of urban planning, the idea of the "public realm," planning/design expertise and the rational model, the role of diversity, public participation, communicative planning, advocacy and equity planning, ethics comprehensiveness and the limits of planning. The course will include assignments that will build student's ability to write quick and analytical assessments, often required in planning practice. Students will be required to attend public planning forums in and around the region.

UPD 332CZ Environmental Sustainability
This course will introduce the concept of sustainability and review how sustainability might work at the individual, neighborhood, state, nation and global scales. Students will participate in some form of community engagement on sustainability as well as reflect upon how their own practices impact the environment. Counts toward A&S Interdisciplinary ""Cluster course."" Key course in sustainability minor.

UPD 332CZ Environmental Sustainability
This course will introduce the concept of sustainability and review how sustainability might work at the individual, neighborhood, state, nation and global scales. Students will participate in some form of community engagement on sustainability as well as reflect upon how their own practices impact the environment. Counts toward A&S Interdisciplinary ""Cluster course."" Key course in sustainability minor.

UPD 340 Neighborhood And Community Development
Course provides a comprehensive introduction to the field of community development and neighborhood planning. The development of theoretical models that explain neighborhood change and history in the U.S. will serve as the basis. Issues explored include: community organizing, social movements, federal and state policies, and the role of planning organizations and community development corporations in neighborhood revitalization.

UPD 340 Neighborhood And Community Development
Course provides a comprehensive introduction to the field of community development and neighborhood planning. The development of theoretical models that explain neighborhood change and history in the U.S. will serve as the basis. Issues explored include: community organizing, social movements, federal and state policies, and the role of planning organizations and community development corporations in neighborhood revitalization.

UPD 400 Advanced GIS For Urban Planning
This advanced level GIS course is designed to expose students to high level GIS techniques and geospatial analyses in urban planning. Students will learn advanced theories and geographic information tools with hands-on experiences. Students will have an opportunity to apply their knowledge and skills in GIS to a real world planning project in class.

UPD 400 Advanced GIS For Urban Planning
This advanced level GIS course is designed to expose students to high level GIS techniques and geospatial analyses in urban planning. Students will learn advanced theories and geographic information tools with hands-on experiences. Students will have an opportunity to apply their knowledge and skills in GIS to a real world planning project in class.

UPD 401 Portfolio and Resume Development
This class focuses on the development of portfolios necessary for professional advancement in the design fields. Students examine the various types of resumes and portfolios that can be used in different employment situations. Students will be exposed to the many design decisions that must be made when developing a resume and portfolio. Offered Spring
exposed to the many design decisions that must be made when developing a resume and portfolio. Offered Spring

UPD 403 GIS for Urban Planning
The introductory level GIS course is designed to expose graduate students to Geographical Information Systems (GIS). Students will learn basic concepts and theories of GIS and application of GIS software with hands-on experience. Students will also learn how to search for demographic, socio-economic, land use, transportation, and geospatial data.

UPD 410 Planning And Design Studio III
Instruction in problem analysis and plan development for defined urban or suburban location with multiple constituencies. Prerequisites: UPD 312 and not more than one grade of D in a UPD studio course. Restrictions: UPD 312 with a grade of C- or better. Restrictions: Consent of the department

UPD 411 Professional Practice I
This course prepares students for professional practice in planning and design. Issues to be addressed in the seminar include mediation, public meeting facilitation methods and presentation skills. Students engage in writing assignments addressing urban plans and designs concurrent with their work in Planning and Design Studio III (UPD 410). Prerequisite: Concurrent enrollment with UPD 410. Restrictions: Consent of the department

UPD 412WI Planning And Design Studio IV
Capstone course that incorporates a topical plan or a comprehensive plan for a client comprising a development subdivision, a community or a redevelopment area. Prerequisites: UPD 410 with a grade of C- or better; Must have passed the WEPT Restrictions: Consent of the department

UPD 413 Professional Practice II
A continuation of professional practice seminar addressing issues of Urban Planning and Design practice including different career options in the public, private, and the nonprofit sectors. The course will chart a path of successful post graduation professional development. Restrictions: Concurrent enrollment in UPD 412WI. Restrictions: Consent of the department

UPD 420 Transportation Planning
The course provides fundamental theories, methods, and contemporary issues in transportation planning. The topics covered in this course include the transportation planning process, transportation systems, travel demand analysis, and policy issues such as the linkage between land use and transportation, urban transportation finance, social and environmental justice, transportation and environmental impacts, and traffic congestion.

UPD 420 Transportation Planning
The course provides fundamental theories, methods, and contemporary issues in transportation planning. The topics covered in this course include the transportation planning process, transportation systems, travel demand analysis, and policy issues such as the linkage between land use and transportation, urban transportation finance, social and environmental justice, transportation and environmental impacts, and traffic congestion.
UPD 430 Planning For Historic Preservation
The course provides a survey of major issues in the field of historic preservation and heritage studies from a planning perspective. Will focus primarily on the built environment of the United States, as well as world heritage sites and international perspectives. The course will include the urban planning techniques used for preserving historic buildings, neighborhood and districts, as well as some of the landmark legal decisions and legislation that have shaped heritage preservation practice in the U.S. Prerequisite: UPD 260 recommended

UPD 430 Planning For Historic Preservation
The course provides a survey of major issues in the field of historic preservation and heritage studies from a planning perspective. Will focus primarily on the built environment of the United States, as well as world heritage sites and international perspectives. The course will include the urban planning techniques used for preserving historic buildings, neighborhood and districts, as well as some of the landmark legal decisions and legislation that have shaped heritage preservation practice in the U.S. Prerequisite: UPD 260 recommended

UPD 432 Urban Environment Planning And Design
The built environment does not exist in a vacuum. Cities operate within broad ecological processes. Effective environmental planning can protect important natural resources while providing for a higher quality of life for urban residents. As a survey course in a subfield of urban planning, this course introduces students to environment planning approaches and techniques. Prerequisites: UPD Urban Planning Theory and Practice recommended. Offered: Spring

UPD 432 Urban Environment Planning And Design
The built environment does not exist in a vacuum. Cities operate within broad ecological processes. Effective environmental planning can protect important natural resources while providing for a higher quality of life for urban residents. As a survey course in a subfield of urban planning, this course introduces students to environment planning approaches and techniques. Prerequisites: UPD Urban Planning Theory and Practice recommended. Offered: Spring

UPD 440 New Urbanism
This course will focus on all the components of the New Urbanism—from the region to the block and the building. It will give a detailed analysis of the history and techniques of NU, and the current state of the practice. The course will be a combination of lecture and field work, as students will be asked to participate in exercises that will deepen their understanding of the built environment.

UPD 450 Planning Law And Practice
Introduction to legal procedures basic to urban planning; including legal, constitutional, legislative, and administrative concepts, controls, and land-use regulations.

UPD 450 Planning Law And Practice
Introduction to legal procedures basic to urban planning; including legal, constitutional, legislative, and administrative concepts, controls, and land-use regulations.

UPD 460CC CC: Queer in the City: An introduction to Lesbian and Gay Studies
This course introduces queer theory within the context of gender studies and urban studies. We will read, discuss, and react to classic text in queer theory, lesbian and gay studies, and sexuality and space studies. There will be an emphasis on finding ""otherness"" within everyday spaces, places, texts, and discourses.

UPD 472 Urban Redevelopment
Contemporary issues of urban redevelopment, with an emphasis on American cities, will be examined. Redevelopment processes recently completed or underway in the greater Kansas City region will be the subject of a case study and a theoretical review by each student.

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Contemporary issues of urban redevelopment, with an emphasis on American cities, will be examined. Redevelopment processes recently completed or underway in the greater Kansas City region will be the subject of a case study and a theoretical review by each student.

UPD 490 Urban Planning Internship
Urban planning work experience off-campus with an approved professional, Government, or non-profit agency sponsor. A contract specifying the expected product of the internship is required between the student, agency, and faculty coordinator. Prerequisites: UPD 203, UPD 300 Restrictions: Consent of the Department.

UPD 490 Urban Planning Internship
Urban planning work experience off-campus with an approved professional, Government, or non-profit agency sponsor. A
contract specifying the expected product of the internship is required between the student, agency, and faculty coordinator.

**Prerequisites:** UPD 203, UPD 300

**Restrictions:** Consent of the Department.

**UPD 496 Directed Studies In Urban Planning**
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Restrictions: Consent of the department

**UPD 497 Directed Studies In Urban Planning**
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Restrictions: Consent of the department

**UPD 499 Special Topics In Urban Planning**
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment.

**UPD 499C Special Topics In Urban Planning**
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment. Offered: Every semester

**UPD 499D Special Topics In Urban Planning**
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment. Offered: Every semester

**UPD 499E Special Topics In Urban Planning**
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment. Offered: Every semester

**UPD 499F Special Topics In Urban Planning**
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment. Offered: Every semester

**Urban Studies (URBAN-ST)**

**URBAN ST 100 Neighborhood And Community Development**
Course provides a comprehensive introduction to the field of community development and neighborhood planning. The development of theoretical models that explain neighborhood change and history in the United States will serve as the basis. Issues explored include: Community organizing, social movements, federal and state policies, and the role of planning organizations and community development corporations in neighborhood revitalization. Also cross listed as UPD 340

**URBAN ST 100 Neighborhood And Community Development**
Course provides a comprehensive introduction to the field of community development and neighborhood planning. The development of theoretical models that explain neighborhood change and history in the United States will serve as the basis. Issues explored include: Community organizing, social movements, federal and state policies, and the role of planning organizations and community development corporations in neighborhood revitalization. Also cross listed as UPD 340

**URBAN ST 101 Introduction To Urban Studies**
Introduction to Urban Studies is a lecture and discussion course that provides the undergraduate student with an overview of the interdisciplinary field of urban social science. The Student who successfully completes this course will have a broad understanding of the major issues, vocabulary, basic methods, and prominent scholars in urban studies. We will also explore current events of relevance, including the opportunities and problems facing major cities in the United States including Kansas City. Also cross listed as UPD 101.
URBAN ST 340 Neighborhood and Community Development
Course provides a comprehensive introduction to the field of community development and neighborhood planning. The development of theoretical models that explain neighborhood change and history in the U.S. will serve as the basis. Issues explored include: community organizing, social movements, federal and state policies, and the role of planning organizations and community development corporations in neighborhood revitalization. Prerequisite: none

URBAN ST 460CC CC: Queer in the City: An Introduction to Lesbian and Gay Studies
This course introduces queer theory within the context of gender studies and urban studies. We will read, discuss, and react to classic text in queer theory, lesbian and gay studies, and sexuality and space studies. There will be an emphasis on finding "otherness" within everyday spaces, places, texts, and discourses.

URBAN ST 499WI Urban Studies Seminar
This is the capstone course in the Urban Studies Program and is required for majors in the junior/senior year. Students critique urban research and prepare a paper and an oral presentation on an approved topic.

Women's and Gender Studies (WGS)
WGS 201 Introduction To Women's & Gender Studies
This class provides an introduction to the interdisciplinary field of women's and gender studies. The focus of this course will be the many ways gender is integral to our understanding of our world and the communities in which we live.

WGS 301 Introduction to Feminist Theory
This course covers a wide variety of feminist theories and theoretical perspectives, primarily since the 1960s, and is devoted to understanding and evaluating this body of work and the insights and possibilities for change that it suggests. Prerequisite: WGS 201 or permission of the instructor.

WGS 405 Special Topics In Women's And Gender Studies
Each time this course is offered a different area of Women's and Gender Studies will be covered. This course may be repeated for credit when the topic changes. Offered: Every Semester

WGS 484 Women's & Gender Studies Internship
The Women's Studies Internship Program is an opportunity for undergraduate students to gain on-site experience. Students will receive 1-4 hours of academic credit while learning and working in off- or on-campus placements. Students will engage in the ongoing feminist effort to integrate research with social activism as they apply academic knowledge to their work experience and consider how practical experience informs or alters theory. Internship experiences may take place on or off-campus, such as at the UMKC Women's Center or a local battered women's shelter. The Women's Center Director serves as coordinator for all
internship experiences. Prerequisite: WGS 201 or permission of instructor. Restriction: Student must receive approval of advising professor in semester prior to enrollment.

**WGS 499 Women's And Gender Studies: Senior Seminar**
This capstone course focuses on research leading to a term paper on a Women's and Gender Studies Topic. Offered: Every semester

**World Literature (WLD-LIT)**

**WLD-LIT 210 Foundations Of World Literature I**
This course studies ancient world literature such as The Descent of Inanna, Egyptian love poetry, Hebrew Scriptures, the epics of Homer and Virgil, the Analects of Confucius, and the Oriental wisdom of Laozi. The course also considers ancient creation epics such as the cosmic battle between Marduk and Tiamat, the Metamorphosis of Ovid, and the great Indian epic The Ramayana. Also listed as CLASSICS 210.

**WLD-LIT 210 Foundations Of World Literature I**
This course studies ancient world literature such as The Descent of Inanna, Egyptian love poetry, Hebrew Scriptures, the epics of Homer and Virgil, the Analects of Confucius, and the Oriental wisdom of Laozi. The course also considers ancient creation epics such as the cosmic battle between Marduk and Tiamat, the Metamorphosis of Ovid, and the great Indian epic The Ramayana. Also listed as CLASSICS 210.

**School of Biological Sciences**

**School of Biological Sciences Undergraduate Courses**

**Biology (BIOLOGY)**

**BIOLOGY 102 Biology And Living**
Introduction to structural organization and functional processes of living systems. Three hours lecture a week. For non-biology majors only. Does not count toward biology degree.

**BIOLOGY 102L Biology And Living Laboratory**
Exploration of basic biological concepts through laboratory activities requiring data collection and analysis. Four hours laboratory per week. For non-majors only; does not count toward Biology degree requirements. Prerequisite: BIOLOGY 102 or concurrent.

**BIOLOGY 108 General Biology I**
Fundamental studies in biology emphasizing the unity and diversity of life. Topics include the basic chemistry of biological processes, cell types and organelles, energy harvesting and energy producing pathways, cell and life cycles, genetics, DNA structure, genes, transcription, translation, natural selection, population genetics, speciation, and phylogenetic analysis. Prerequisites: High School Biology and Chemistry background highly recommended.

**BIOLOGY 108 General Biology I**
Fundamental studies in biology emphasizing the unity and diversity of life. Topics include the basic chemistry of biological processes, cell types and organelles, energy harvesting and energy producing pathways, cell and life cycles, genetics, DNA structure, genes, transcription, translation, natural selection, population genetics, speciation, and phylogenetic analysis. Prerequisites: High School Biology and Chemistry background highly recommended.

**BIOLOGY 108 General Biology I**
Fundamental studies in biology emphasizing the unity and diversity of life. Topics include the basic chemistry of biological processes, cell types and organelles, energy harvesting and energy producing pathways, cell and life cycles, genetics, DNA structure, genes, transcription, translation, natural selection, population genetics, speciation, and phylogenetic analysis. Prerequisites: High School Biology and Chemistry background highly recommended.

**BIOLOGY 108L General Biology I Laboratory**
Basic laboratory studies in Biology emphasizing the unity and diversity of life. Structure, function, heredity, development, ecology and evolution will be explored. Three hours laboratory per week. Prerequisites or corequisite: BIOLOGY 108
BIOLOGY 109 General Biology II
Fundamental studies in biology emphasizing the unity and diversity of life. Topics include prokaryotes, fungi, invertebrate-vertebrate zoology and phylogeny, human evolution, plant structure and development, animal development and physiology, ecology (population and ecosystems). Prerequisite(s) High School Biology and Chemistry background highly recommended.

BIOLOGY 109 General Biology II
Fundamental studies in biology emphasizing the unity and diversity of life. Topics include prokaryotes, fungi, invertebrate-vertebrate zoology and phylogeny, human evolution, plant structure and development, animal development and physiology, ecology (population and ecosystems). Prerequisite(s) High School Biology and Chemistry background highly recommended.

BIOLOGY 109 General Biology II
Fundamental studies in biology emphasizing the unity and diversity of life. Topics include prokaryotes, fungi, invertebrate-vertebrate zoology and phylogeny, human evolution, plant structure and development, animal development and physiology, ecology (population and ecosystems). Prerequisite(s) High School Biology and Chemistry background highly recommended.

BIOLOGY 109L General Biology II Laboratory
Basic laboratory studies in Biology emphasizing the unity and diversity of life. Structure, function, heredity, development, regulation of growth and evolution will be explored. Three hours laboratory per week. Prerequisites or corequisite: BIOLOGY 109

BIOLOGY 115 First Year Seminar
This course is designed to provide students with the skills necessary to achieve success at the university. The curriculum includes time management, study, reading, note-taking and test-taking strategies, health and wellness, and student support services. Additional emphasis will include career exploration, including professionalism, writing a resume, and developing plan of study for degree completion. Offered: Fall

BIOLOGY 115 First Year Seminar
This course is designed to provide students with the skills necessary to achieve success at the university. The curriculum includes time management, study, reading, note-taking and test-taking strategies, health and wellness, and student support services. Additional emphasis will include career exploration, including professionalism, writing a resume, and developing plan of study for degree completion. Offered: Fall

BIOLOGY 202 Cell Biology
Basic concepts of cellular and subcellular structure and function, including supramolecular and organelle structure and organization, bioenergetics, cell growth and cellular communication. Three lectures per week. Prerequisites: BIOLOGY 108, BIOLOGY 109, and CHEM 212R, or LS-ANATO 119/119L, LS-MCRB 121 and CHEM 212R, OR consent of SBS advisor.

BIOLOGY 203 Essential Cell Biology
Foundations of cellular functions. Serves as a bridge between biochemistry and cell and organ physiology for dental students. Applications of fundamental principles to the physiology and pathology of the oral tissues will be stressed.

BIOLOGY 203 Essential Cell Biology
Foundations of cellular functions. Serves as a bridge between biochemistry and cell and organ physiology for dental students. Applications of fundamental principles to the physiology and pathology of the oral tissues will be stressed.

BIOLOGY 206 Genetics
A modern approach integrating molecular and organismal studies of the general genetics of lower and higher organisms. Chromosomal structure and function, gene transmission, heredity, plasticity and population genetics will be discussed. Three hours lecture per week. Prerequisites: BIOLOGY 108, BIOLOGY 109, CHEM 212R.

BIOLOGY 302 General Ecology
Introduction to the study of populations, communities, and ecosystems by examining the interrelationships between living organisms and their environments. The role of natural selection and evolution will also be considered. Three hours lecture per week. Prerequisites: BIOLOGY 108, BIOLOGY 109, or BIOLOGY 102.

BIOLOGY 302 General Ecology
Introduction to the study of populations, communities, and ecosystems by examining the interrelationships between living organisms and their environments. The role of natural selection and evolution will also be considered. Three hours lecture per week. Prerequisites: BIOLOGY 108, BIOLOGY 109, or BIOLOGY 102.

BIOLOGY 302L Ecology Laboratory
This course provides laboratory and field experience in ecology. The course will cover topics including statistical analysis and
data presentation, terrestrial and aquatic sampling, experimental design and scientific writing. Offered Spring only. Prerequisite: Biology 302 (corequisite).

**BIOLOGY 303** Invertebrate Zoology
Taxonomy, evolutionary relationships, behavior, reproduction, morphology and ecology of the invertebrates. Three hours lecture a week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 212R.

**BIOLOGY 303** Invertebrate Zoology
Taxonomy, evolutionary relationships, behavior, reproduction, morphology and ecology of the invertebrates. Three hours lecture a week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 212R.

**BIOLOGY 305** Marine And Freshwater Biology
Introduction to the study of marine ecology, deep-sea biology, oceanic nekton, inter-tidal ecology, estuaries, mangroves and salt marshes, as well as ecology of rivers, lakes, streams, wetlands and human impact on aquatic habitats. Three hours lecture per week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 211.

**BIOLOGY 305** Marine And Freshwater Biology
Introduction to the study of marine ecology, deep-sea biology, oceanic nekton, inter-tidal ecology, estuaries, mangroves and salt marshes, as well as ecology of rivers, lakes, streams, wetlands and human impact on aquatic habitats. Three hours lecture per week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 211.

**BIOLOGY 308** Vertebrate Zoology
Taxonomy, evolutionary relationships, behavior, reproduction, morphology and ecology of the vertebrates. Three hours lecture a week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 212R.

**BIOLOGY 308** Vertebrate Zoology
Taxonomy, evolutionary relationships, behavior, reproduction, morphology and ecology of the vertebrates. Three hours lecture a week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 212R.

**BIOLOGY 312WL** Laboratory In Developmental Biology, Genetics And Cell Biology
Experimental studies of genetics and development in selected eukaryotic model organisms with an emphasis on the molecular and cellular mechanism of inheritance. Six hours lab and one hour lecture per week. Designation: Writing Intensive. Prerequisites: LS-BIOC 341, BIOLOGY 409 corequisite.

**BIOLOGY 314** Entomology
Anatomy, physiology and identification of insects with emphasis on their environmental adaptations. Three hours lecture per week. Prerequisite: BIOLOGY 109 OR LS-ANATO 119.

**BIOLOGY 319** Global Health: New and Emerging Infectious Diseases
This course will discuss infectious diseases that are newly identified, or increasing in prevalence throughout the world. Several aspects of each disease will be discussed, including transmission, symptoms, treatment, prevention, and diagnosis. The course is meant for students interested in a health-related career (medicine, dental, pharmacy, public health), but other students with a basic biology background are welcome. The course is offered in spring semesters only. Prerequisites: Biology 108/109 or Biology 102.

**BIOLOGY 319** Global Health: New and Emerging Infectious Diseases
This course will discuss infectious diseases that are newly identified, or increasing in prevalence throughout the world. Several aspects of each disease will be discussed, including transmission, symptoms, treatment, prevention, and diagnosis. The course is meant for students interested in a health-related career (medicine, dental, pharmacy, public health), but other students with a basic biology background are welcome. The course is offered in spring semesters only. Prerequisites: Biology 108/109 or Biology 102.

**BIOLOGY 322** General Parasitology
Parasitic protists, worms and arthropods and the disease states they may induce, will be examined in relationship to human, animal and plants hosts. Three hours lecture per week. Prerequisite(s): BIOLOGY 109 OR LS-ANATO 119. Offered: Summer

**BIOLOGY 326** Biological Conservation
Applications of ecology and genetics to the conservation of communities and individual species, including discussion of the Endangered Species Act extinction processes, and the effects of habitat fragmentation. Prerequisites: BIOLOGY 302 recommended: BIOLOGY 108 & BIOLOGY 109 required

**BIOLOGY 327** Biogeography And Biodiversity
Evolutionary and climatological effects on the geographic distribution of organisms, including areas of endemism as well as
preservation of biodiversity. Prerequisite(s): BIOLOGY 108 & BIOLOGY 109. Offered: Summer

**BIOLOGY 328** Histology
Animal tissues and their specialization in the organism, with major emphasis on higher organisms. Two hours lecture per week. Prerequisite(s): BIOL 109 or BIOLOGY 118, BIOLOGY 202, CHEM 212R.

**BIOLOGY 328L** Laboratory In Histology And Cellular Ultrastructure
Examination of structure/function relationships at the subcellular, cellular and organ levels. Both plants and animals will be examined with emphasis on vertebrates. Five hours lab per week. Prerequisite: BIOL 202, CHEM 212R, (corequisite) BIOL 328, consent of SBS Adviser. Offered: Winter

**BIOLOGY 328WL** Laboratory In Histology And Cellular Ultrastructure
Examination of structure/function relationships at the subcellular, cellular and organ levels. Both plants and animals will be examined with emphasis on vertebrates. Five hours lab per week. Designation: Writing Intensive. Prerequisites: BIOLOGY 202, CHEM 212R, (co-requirement) BIOLOGY 328, consent of SBS advisor.

**BIOLOGY 329** Endocrinology
Endocrine regulation and control of growth, development, homeostasis, and reproduction. Includes study of the endocrine organs, their products, and mechanisms of action. Two hours of lecture per week. Prerequisite: BIOLOGY 202 (Physiology background recommended.)

**BIOLOGY 331** Reproductive Biology
Comprehensive overview of current concepts and knowledge regarding male and female reproductive processes, from gametogenesis through early placentation. Includes structural, developmental, physiological and pathophysiological aspects of reproduction. Two hours of lecture per week. Prerequisite: Recommended LS-ANATO 118, LS-ANATO 119, LS-PHYS 117, LS-PHYS 316, BIOLOGY 202 and/or BIOLOGY 329. Offered: Summer

**BIOLOGY 344** Bioorganic Structure And Biomolecular Function
An introduction to chemical and physical properties of complex biological macromolecules and their functions in living cells. Nomenclature, functional groups, reactions and stereochemistry are among the topics to be emphasized. Prerequisites: BIOLOGY 109 and CHEM 320, CHEM 322R. Offered (semester): Winter.

**BIOLOGY 346** Plant Biology
An integrated study of growth, development, and reproduction of plants, including structure and function of plant tissues and organs, as well as a survey of the recent advances in genetic engineering, plant defense mechanisms, and medical botany and the usefulness of plants to humans. Three hours lecture per week. Prerequisites or corequisite: BIOLOGY 202

**BIOLOGY 346** Plant Biology
An integrated study of growth, development, and reproduction of plants, including structure and function of plant tissues and organs, as well as a survey of the recent advances in genetic engineering, plant defense mechanisms, and medical botany and the usefulness of plants to humans. Three hours lecture per week. Prerequisites or corequisite: BIOLOGY 202

**BIOLOGY 405** Introduction To Evolution
Discussion of the biological processes that produce organic diversity through phyletic change, including variation, mutation, adaptation, population genetics, natural selection, genetic drift, gene flow, and macroevolution. Prerequisite: BIOLOGY 206.

**BIOLOGY 409** Developmental Biology
Principles of development and differentiation of structure during embryology in animals. Molecular, cellular and organismal level concepts and mechanisms will be considered. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206.

**BIOLOGY 409** Developmental Biology
Principles of development and differentiation of structure during embryology in animals. Molecular, cellular and organismal
level concepts and mechanisms will be considered. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206.

**BIOLOGY 427 Plant Physiology**
A study of the biochemical and physical processes involved in plant function at the molecular and cellular level and the mechanisms by which plants respond to environmental challenges. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206 AND LS-BIOC 341

**BIOLOGY 427 Plant Physiology**
A study of the biochemical and physical processes involved in plant function at the molecular and cellular level and the mechanisms by which plants respond to environmental challenges. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206 AND LS-BIOC 341

**BIOLOGY 442 Neurobiology**
Neurobiology will consist of the presentation of theory and data concerning cellular and molecular fundamentals of the nervous system, synaptic mechanisms, sensory-motor systems, and higher-order functions of the nervous system. Three hours lecture per week. Prerequisite: LS-PHYS 316, LS-BIOC 341, or permission of instructor.

**BIOLOGY 442 Neurobiology**
Neurobiology will consist of the presentation of theory and data concerning cellular and molecular fundamentals of the nervous system, synaptic mechanisms, sensory-motor systems, and higher-order functions of the nervous system. Three hours lecture per week. Prerequisite: LS-PHYS 316, LS-BIOC 341, or permission of instructor.

**BIOLOGY 498WI Critical Analysis Of Biological Issues**
Reading and Analysis of scientific literature, including original papers, on a topic of broad biological interest. Critical discussion of experimental methods and results. Writing of scientific reviews and a term paper. Taking the MFAT test is a requirement of this course, and the course satisfies the general education synthesis requirement. Three hours per week of lecture and literature research. Prerequisite(s): Chem 320 or CHEM 322R, completion of core requirements, consent of SBS adviser. Designation: Writing Intensive.

**BIOLOGY 498WI Critical Analysis Of Biological Issues**
Reading and Analysis of scientific literature, including original papers, on a topic of broad biological interest. Critical discussion of experimental methods and results. Writing of scientific reviews and a term paper. Taking the MFAT test is a requirement of this course, and the course satisfies the general education synthesis requirement. Three hours per week of lecture and literature research. Prerequisite(s): Chem 320 or CHEM 322R, completion of core requirements, consent of SBS adviser. Designation: Writing Intensive.

**Life Science (LIFE-SCI)**
**LIFE-SCI 399 Introduction To Research**
Introduction to the theory and practice of research in modern biological sciences. Consent of full-time regular SBS doctoral faculty member and undergraduate programs office required. Requires minimum of 3-4 hours per week in the laboratory for each credit hour. Prerequisites: BIOLOGY 108, BIOLOGY 109, CHEM 212R, 3.0 Science GPA. Semester offered: Every semester

**LIFE-SCI 401 Biophysical Principles**
Fundamental biophysical concepts and their application to the study of biological molecules, particularly macromolecules and supramolecular structures. Includes discussion of thermodynamics, kinetics, and spectroscopy. Prerequisites: PHYSICS 240 OR PHYSICS 210, MATH 210 AND LS-BIOC 341 Offered: Fall Semesters

**LIFE-SCI 438 Molecular Recognition In Cellular Biology**
Studies the latest development leading to an increased understanding of cellular biology processes when the experimental tools of structural biology analysis and molecular genetics are applied. Prerequisites: BIOLOGY 108 & BIOLOGY 109, LS-BIOC 341, BIOLOGY 202 & BIOLOGY 206. Offered: Fall

**LIFE-SCI 490WI Senior Seminar**
Discussion, writing and specific readings to coordinate with and amplify topics covered in School of Biological Sciences seminars; must include a term paper on a specific topic. Designation: Writing Intensive. Prerequisite(s): Completion of core requirements, consent of SBS adviser.

**LIFE-SCI 497A Special Topics-Bioinformatics**
Individual or small group study of topics in the area of bioinformatics including class room work, presentation, library work, and writing of term papers or other reports. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements. Prerequisite(s) Completion of Biology degree core requirements; a minimum
LIFE-SCI 497B Special Topics-Genetics
Individual or small group study of topics in the area of genetics including class room work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SCI 497BB Special Topics: Behavioral Biology

LIFE-SCI 497C Special Topics-Microbiology
Individual or small group study of topics in the area of microbiology including class room work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SCI 497D Special Topics-Physiology
Individual or small group study of topics in the area of physiology including class room work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SCI 497E Special Topics - Biochemistry
Individual or small group study of topics in the area of biochemistry including class room work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SCI 497F Special Topics - Biophysics
Individual or small group study of topics in the area of biophysics including class room work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SCI 497G Special Topics-Cell Biology
Individual or small group study of topics in the area of cell biology including class room work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SCI 497H Special Topics: Neuroscience
Individual or small group study of topics in the area of neuroscience including class room work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SCI 497I Special Topics-Botany
Individual or small group study of topics in the area of botany including class room work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.
LIFE-SC1 497J Special Topics-Zoology
Individual or small group study of topics in the area of zoology including class room work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SC1 497K Special Topics-Ecology
Individual or small group study of topics in the area of ecology including class room work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SC1 497L Special Topics-Biological Sciences
Individual or small group study of topics in the area of biological sciences including class room work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

LIFE-SC1 497P Special Topics-Biotechnology
Individual or small group study of topics in the area of biotechnology including class room work, presentation, library work, and writing of term papers or other reports. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 courses may not exceed 4 credit hours towards Biology course degree requirements. Prerequisite(s): Completion of Biology degree core requirements; a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Advisor. Offered: Fall, Winter, Summer

LIFE-SC1 499A Undergraduate Research-Bioinformatics
Independent research, including the writing of research reports in the area of bioinformatics. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 may not exceed 4 credit hours towards biology course degree requirements. Prerequisite(s) Completion of Biology degree core requirements a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser.

LIFE-SC1 499B Undergraduate Research-Genetics
Independent research, including the writing of research reports in the area of genetics. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 may not exceed 4 credit hours towards biology course degree requirements.

LIFE-SC1 499C Undergraduate Research-Microbiology
Independent research, including the writing of research reports in the area of microbiology. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Adviser. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 may not exceed 4 credit hours towards biology course degree requirements.

LIFE-SC1 499D Undergraduate Research-Physiology
Independent research, including the writing of research reports in the area of physiology. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 may not exceed 4 credit hours towards biology course degree requirements.

LIFE-SC1 499E Undergraduate Research-Biochemistry
Independent research, including the writing of research reports in the area of biochemistry. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 may not exceed 4 credit hours towards biology course degree requirements.

LIFE-SC1 499F Undergraduate Research- Biophysics
Independent research, including the writing of research reports in the area of biophysics. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SC1 497 and LIFE-SC1 499 may not exceed 4 credit hours towards biology course degree requirements.

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course degree requirements.

**LIFE-SCI 499G** Undergraduate Research-Cell Biology
Independent research, including the writing of research reports in the area of cell biology. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

**LIFE-SCI 499H** Undergraduate Research-Neuroscience
Independent research, including writing of research reports in the area of neuroscience. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

**LIFE-SCI 499I** Undergraduate Research-Botany
Independent research, including the writing of research reports in the area of botany. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0, consent of faculty member; permission from a school of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

**LIFE-SCI 499J** Undergraduate Research-Zoology
Independent research, including the writing of research reports in the area of zoology. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0, consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

**LIFE-SCI 499K** Undergraduate Research-Ecology
Independent research, including the writing of research reports in the area of ecology. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0, consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

**LIFE-SCI 499L** Undergraduate Research-Biological Sciences
Independent research, including the writing of research reports in the area of biological sciences. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Advisor. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

**LIFE-SCI 499M** Undergraduate Research-Biological Sciences Honors
Independent research, including the writing of research reports in the area of biological sciences. Prerequisites: Consent of SBS adviser required.

**LIFE-SCI 499P** Undergraduate Research-Biotechnology
Independent research, including the writing of research reports in the area of biotechnology. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements. Prerequisite(s) Completion of Biology degree core requirements a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Advisor. Offered: Fall, Winter, Summer

**LIFE-SCI H490WI** Honors Senior Seminar
Discussion, writing and specific readings to coordinate with and amplify topics covered in School of Biological Sciences seminars; must include a term paper on a specific topic. Designation: Writing Intensive. Prerequisite(s): Completion of core requirements, consent of SBS adviser.

**Life Science - Anatomy (LS-ANATO)**

**LS-ANATO 118** Introductory Anatomy
Description and discussion of the cells, organs, organ systems and basic tissues of vertebrates with special emphasis on their interrelationships in functional anatomy. Three hours lecture per week. Prerequisites: BIOL 102 or BIOL 108 or BIOL 109.

**LS-ANATO 118** Introductory Anatomy
Description and discussion of the cells, organs, organ systems and basic tissues of vertebrates with special emphasis on their
interrelationships in functional anatomy. Three hours lecture per week. Prerequisites: BIOL 102 or BIOL 108 or BIOL 109.

**LS-ANATO 118 Introductory Anatomy**
Description and discussion of the cells, organs, organ systems and basic tissues of vertebrates with special emphasis on their interrelationships in functional anatomy. Three hours lecture per week. Prerequisites: BIOL 102 or BIOL 108 or BIOL 109.

**LS-ANATO 118L Introductory Anatomy Laboratory**
Laboratory investigation of cells, tissues, and organs with special emphasis on their interrelationship in vertebrates. One hour recitation and three hours lab per week. Pre/co-requisite: LS ANAT 118

**LS-ANATO 119 Functional Anatomy I**
An introduction to the functional anatomy of vertebrates with emphasis on organs, organ systems and tissues. Three hours lecture per week.

**LS-ANATO 119L Functional Anatomy I Laboratory**
An introduction to the functional anatomy of vertebrates with emphasis on organs, organ systems and tissues. Three hours recitation per week.

**Life Science - Biochemistry (LS-BIOC)**

**LS-BIOC 304 Biochemistry And Nutrition**
The chemistry of the structures and processes of the human body in their normal condition with special consideration of the chemical aspects of disease of the oral structure. A presentation of the basic principles of nutrition.

**LS-BIOC 3120 Biochemistry And Nutrition**
The fundamentals of biochemistry and the nutritional implications as they relate to source and utilization of essential nutrients.

**LS-BIOC 3240 Applied Nutrition**
Students will discuss life cycle nutrition as it relates to preventive dentistry and total health. Nutritional factors from infancy to old age are discussed, including diet and nutrition for special patients such as expectant mothers, diabetics, patients with heart disease, fracture patients, institutionalized patients, etc. Students will provide nutritional counseling to healthy patients and special patients within the framework of the course. Principles will be utilized in later clinical courses and practicums.

**LS-BIOC 341 Basic Biochemistry**
One semester course covering the properties of organic compounds important to biological systems. Structures, characterization and reactions of common compounds and their relationship to the building blocks of biological systems will be discussed. Three hours lecture per week. Prerequisites: BIOLOGY 202, and CHEM 320, or CHEM 322R.

**LS-BIOC 360 Biochemistry**
Introduction to modern biochemistry. Structure and function of biologically important compounds, major biochemical pathways and their regulation in animals, plants and microorganisms, and the molecular and biochemical basis of gene function will be studied. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206, LS-BIOC 341, and CHEM 320 or CHEM 322R.

**LS-BIOC 360L Laboratory In Biochemistry And Molecular Biology**
Laboratory studies in biochemistry and molecular biology with an emphasis on modern techniques and quantitative relationships. Written consent of the instructor required. Prerequisite: LS-BIOC 341.
LS-BIOC 360L Laboratory In Biochemistry And Molecular Biology
Laboratory studies in biochemistry and molecular biology with an emphasis on modern techniques and quantitative relationships. Written consent of the instructor required. Prerequisite: LS-BIOC 341.

LS-BIOC 360WL Laboratory In Biochemistry And Molecular Biology
Laboratory studies in biochemistry and molecular biology with an emphasis on modern techniques and quantitative relationships. Written consent of the instructor required. Designation: Writing Intensive. Prerequisite(s): LS-BIOC 341.

LS-BIOC 365 Human Biochemistry I
The basic principles of human biochemistry for pharmacy students presented in a two-term integrated unit. Topics will include the chemistry and mechanisms involved in biosynthesis, degradations and utilization of the major constituents of living systems and the biochemistry of specialized tissues, hormones, nutrition and regulation. Restricted to students in the School of Pharmacy. Prerequisites: BIOLOGY 202 (pre or corequisite) and CHEM 320 or CHEM 322R.

LS-BIOC 366 Human Biochemistry II
The basic principles of human biochemistry for pharmacy students and other undergraduates presented in a two-term integrated unit. Topics will include the chemistry and mechanisms involved in biosynthesis, degradation and utilization of the major constituents of living systems and the biochemistry of specialized tissues, hormones, nutrition and regulation. Restricted to students in the School of Pharmacy. Prerequisite: LS-BIOC 365.

LS-BIOC 425 Bioinformatics
Study of the acquisition, storage, retrieval, analysis, modeling, and distribution of information in biomolecular databases. Recent developments in genomics and proteomics and how these databases are used in modern biological research will be emphasized. Prerequisites: LS-BIOC 341 or permission of instructor.

LS-BIOC 430 Molecular Biology And Genetic Engineering
Molecular aspects of gene structure and function, including macromolecular synthesis, gene regulation, genetic transfer and biotechnology will be discussed in prokaryotes and eukaryotes. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206, and LS-BIOC 341.

Life Science - Microbiology (LS-MCRB)
LS-MCRB 112 Microbiology And Living
Lectures and demonstrations concerning the cell structure, genetics and physiology of microorganisms and the role microorganisms play in the world around man with an emphasis on medical and clinical aspects of the significance of various groups of bacteria, viruses fungi and other microorganisms. This course is intended for nursing and other allied health students and for non-biology majors interested in life sciences. Prerequisite: None

LS-MCRB 113 Introductory Microbiology
An introduction to microbiology with emphasis on infection and the basis of immunity. Three hours lecture per week. For non-majors only; does not count toward Biology degree requirements. Prerequisite(s): High School Biology and Chemistry background highly recommended.

LS-MCRB 114L Introductory Microbiology Laboratory
Introductory laboratory studies in microbiology and infection to correlate with LS-MCRB 113. Four hours per week. For non-majors only; does not count toward biology degree requirements. Prerequisite: LS-MCRB 112 or LS-MCRB 113.

LS-MCRB 114L Introductory Microbiology Laboratory
Introductory laboratory studies in microbiology and infection to correlate with LS-MCRB 113. Four hours per week. For non-majors only; does not count toward biology degree requirements. Prerequisite: LS-MCRB 112 or LS-MCRB 113.

LS-MCRB 121 Human Biology III (Microbiology)
Basic concepts of microbiology with emphasis on infectious diseases and host defenses. Three hours lecture per week. Prerequisite(s): LS-ANATO 119, CHEM 211
LS-MCRB 121L Human Biology III (Microbiology) Lab
Laboratory exercises demonstrating basic concepts of microbiology with emphasis on infectious diseases and host defenses. Three hours laboratory per week. Prerequisites or corequisite: LS-MCRB 121 Offered: (semester)

LS-MCRB 313 Microbiology
Fundamental and applied aspects of microbial structure, metabolism, genetics and diversity. Experimental approaches to studying the microbial world will be emphasized. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206, and LS-BIOC 341 co-requisite.

LS-MCRB 313L Laboratory In Microbiology
General microbiological procedures plus advanced work in the areas of microbial physiology and genetics, pathogenic microbiology, virology, applied microbiology and biotechnology. One hour lecture and six hours lab per week. Pre-or corequisites, LS-MCRB 313, LS-BIOC 341, consent of SBS adviser. Offered: Fall

LS-MCRB 313L Laboratory In Microbiology
General microbiological procedures plus advanced work in the areas of microbial physiology and genetics, pathogenic microbiology, virology, applied microbiology and biotechnology. One hour lecture and six hours lab per week. Pre-or corequisites, LS-MCRB 313, LS-BIOC 341, consent of SBS adviser. Offered: Fall

LS-MCRB 313WL Laboratory In Microbiology
General microbiological procedures plus advanced work in the areas of microbial physiology and genetics, pathogenic microbiology, virology, applied microbiology, and biotechnology. One hour lecture and six hours lab per week. Designation: Writing Intensive. Prerequisite: Pre-or co-requisites, LS-MCRB 313, LS-BIOC 341 Offered: Fall

LS-MCRB 313WL Laboratory In Microbiology
General microbiological procedures plus advanced work in the areas of microbial physiology and genetics, pathogenic microbiology, virology, applied microbiology, and biotechnology. One hour lecture and six hours lab per week. Designation: Writing Intensive. Prerequisite: Pre-or co-requisites, LS-MCRB 313, LS-BIOC 341 Offered: Fall

LS-MCRB 4180 Microbiology
Study of infectious diseases, their etiology, symptoms, prevention and treatment. Special emphasis is placed on plaque formation, caries development, periodontal and other oral diseases that relate to dentistry. Four hours lecture per week

LS-MCRB 431 Virology
Survey of the molecular biology of animal, plant, and bacterial viruses. The course will emphasize the molecular mechanisms of virus replication, viral pathogenesis, and the use of virus as model systems to study mammalian cells. Three hours lecture per week. Prerequisites: BIOLOGY 202 and BIOLOGY 206; pre or co-requisite LS-BIOC 341 or LS-BIOC 365

LS-MCRB 435 Immunology
A study of the cellular and humoral aspects of the immune response, with emphasis upon the mechanisms involved and the relationship of this response to disease processes. Three hours lecture per week. Prerequisites: LS-MCRB 121 or LS-MCRB 313, and LS-BIOC 341 or LS-BIOC 366. Offered: Winter Semesters

LS-MCRB 435 Immunology
A study of the cellular and humoral aspects of the immune response, with emphasis upon the mechanisms involved and the relationship of this response to disease processes. Three hours lecture per week. Prerequisites: LS-MCRB 121 or LS-MCRB 313, and LS-BIOC 341 or LS-BIOC 366. Offered: Winter Semesters

Life Science - Physiology (LS-PHYS)
LS-PHYS 117 Human Physiology
Introduction to body functions presented from an organ systems approach. Three hours lecture per week. For non-majors only; does not count toward biology degree requirements.

LS-PHYS 3070 Oral Physiology
Concepts of general physiology will be discussed as they relate to the clinical practice of dental hygiene. Emphasis will be placed on the normal and abnormal physiology of oral structures, including such topics as neurophysiology, muscle function, salivation, and endocrinology.

LS-PHYS 3070 Oral Physiology
Concepts of general physiology will be discussed as they relate to the clinical practice of dental hygiene. Emphasis will be placed on the normal and abnormal physiology of oral structures, including such topics as neurophysiology, muscle function, salivation,
and endocrinology.

**LS-PHYS 316 Principles Of Physiology**
Physiological functions and processes of animals at the organ and organ systems levels, including concepts of integrated and homeostatic mechanisms. The relationship between organ function and underlying cellular mechanisms in vertebrates will be emphasized. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206, and LS-BIOC 341.

**LS-PHYS 399 Pharmacy Physiology I**
Introduction to the general principles of neurophysiology. Prerequisites: BIOLOGY 202 and CHEM 320.

**LS-PHYS 400 Pharmacy Physiology II**
The principles of physiology presented by an integrated approach based on an organ system format. Emphasis is placed on facts and principles pertinent for the student enrolled in pharmacy. Prerequisite: LS-PHYS 399.

**LS-PHYS 401 Physiology Lecture**
An integrated study of normal functions of various organ systems of the human body with special consideration of the physiology of the oral cavity and its related structures.

**Medical Technology (MED-TECH)**
**MED-TECH 999 Medical Technology Internship**

**School of Computing & Engineering**

**School of Computing & Engineering Undergraduate Courses**

**Civil Engineering (CIV-ENGR)**
**CIV-ENGR 111 Essential Engineering**
Introduction to the practice and history of engineering including its impact on human history, product design/ development and its relationship to the ecosystem, professionalism and ethics, the engineering approach to solving real-world problems, engineering communications and calculations, engineering teamwork and case studies. (Same as MEC-ENGR 111)

**CIV-ENGR 111 Essential Engineering**
Introduction to the practice and history of engineering including its impact on human history, product design/ development and its relationship to the ecosystem, professionalism and ethics, the engineering approach to solving real-world problems, engineering communications and calculations, engineering teamwork and case studies. (Same as MEC-ENGR 111)

**CIV-ENGR 211 The Engineering Enterprise**
The engineering enterprise course covers four topics essential for engineering students with new venture creation interests: creating economic value, leadership, finance, and marketing. The primary objective of this course is to motivate the student to think as a blend of an engineer and a businessperson. (Same as MEC-ENGR 211) Pre/corequisite: CIV-ENGR 111

**CIV-ENGR 219 Computer Programming For Engineers**
Analysis and synthesis of structured computer algorithms for solving engineering problems using high level programming tools such as Excel, Matlab, Fortran and/or C++. (Same as MEC-ENGR 219) Prerequisite: MATH 220

**CIV-ENGR 275 Engineering Statics**
Fundamentals of statics; static equilibrium and introduction to elements of mechanics of elastic materials. Prerequisite: PHY SICS 240; Co-requisite: MATH 250

**CIV-ENGR 276 Strength Of Materials**
Stress and strain; torsion; bending and shear stresses in beams; combined stresses; deflection of beams; columns. Prerequisite: CIV-ENGR 275.

**CIV-ENGR 276 Strength Of Materials**
Stress and strain; torsion; bending and shear stresses in beams; combined stresses; deflection of beams; columns. Prerequisite:
CIV-ENGR 275.

**CIV-ENGR 301 Fundamentals of Civil Engineering**
Special engineering topics for undergraduate students. Prerequisite: Instructor's consent.

**CIV-ENGR 301 Fundamentals of Civil Engineering**
Special engineering topics for undergraduate students. Prerequisite: Instructor's consent.

**CIV-ENGR 311 The Technical Entrepreneur**
The guiding principal for the course is that entrepreneurs are innovators and operate in an uncertain and risky environment. The course looks at the entrepreneurial mindset and the process of new product line launch. (Same as MEC-ENGR 311). Prerequisite: CIV-ENGR 211

**CIV-ENGR 319 Engineering Computation And Statistics**
Statistical distribution functions and application to engineering problems. Limited treatment of curve-fitting and time-series analysis. Introduction to factorial design. (Same as MEC-ENGR 319). Prerequisites: MEC-ENGR 219 and MATH 220

**CIV-ENGR 319 Engineering Computation And Statistics**
Statistical distribution functions and application to engineering problems. Limited treatment of curve-fitting and time-series analysis. Introduction to factorial design. (Same as MEC-ENGR 319). Prerequisites: MEC-ENGR 219 and MATH 220

**CIV-ENGR 319 Engineering Computation And Statistics**
Statistical distribution functions and application to engineering problems. Limited treatment of curve-fitting and time-series analysis. Introduction to factorial design. (Same as MEC-ENGR 319). Prerequisites: MEC-ENGR 219 and MATH 220

**CIV-ENGR 320 Introduction to Factorial Design**
Concepts and techniques of ANOVA and factorial design to supplement standard undergraduate statistics courses. Prerequisite: Undergraduate Statistics Offered: Winter

**CIV-ENGR 321 Structural Analysis I**
Analysis of statically determinate beams, frames and trusses; shear and moment diagrams; influence line diagrams; beam deflections. Analysis of statically indeterminate structures. Energy methods. Prerequisite: CIV-ENGR 276 and MATH 345

**CIV-ENGR 323 Structural Steel Design**
Basic principles of structural steel design. Design of beams, axially loaded members, columns, and bolted and welded connections. Prerequisite: CIV-ENGR 321.

**CIV-ENGR 323 Structural Steel Design**
Basic principles of structural steel design. Design of beams, axially loaded members, columns, and bolted and welded connections. Prerequisite: CIV-ENGR 321.

**CIV-ENGR 335 Soil Mechanics**
Detailed study of physical and mechanical properties of soil governing its behavior as an engineering material. Prerequisite: CIV-ENGR 276, Chem 211 and 211L, Machine Shop Safety

**CIV-ENGR 335 Soil Mechanics**
Detailed study of physical and mechanical properties of soil governing its behavior as an engineering material. Prerequisite: CIV-ENGR 276, 211L, Machine Shop Safety

**CIV-ENGR 335 Soil Mechanics**
Detailed study of physical and mechanical properties of soil governing its behavior as an engineering material. Prerequisite: CIV-ENGR 276, Chem 211 and 211L, Machine Shop Safety

**CIV-ENGR 342 Water And Wastewater Treatment Processes**
Methods for determining and characterizing water quality, effects of pollution on streams and lakes, and an introduction to engineering systems for the distribution, collection and treatment of water and wastewater. Prerequisite: CIV-ENGR 351

**CIV-ENGR 342 Water And Wastewater Treatment Processes**
Methods for determining and characterizing water quality, effects of pollution on streams and lakes, and an introduction to engineering systems for the distribution, collection and treatment of water and wastewater. Prerequisite: CIV-ENGR 351
CIV-ENGR 351 Fluid Mechanics
Concepts of the statics and dynamics of fluids, with emphasis on principles of continuity, momentum and energy. Boundary layers, dimensional analysis and drag are covered briefly. Thorough treatment of pipe flow. (Same as ME 351). Prerequisites: MEC-ENGR 285, MATH 345, or ME 272

CIV-ENGR 351 Fluid Mechanics
Concepts of the statics and dynamics of fluids, with emphasis on principles of continuity, momentum and energy. Boundary layers, dimensional analysis and drag are covered briefly. Thorough treatment of pipe flow. (Same as ME 351). Prerequisites: MEC-ENGR 285, MATH 345, or ME 272

CIV-ENGR 351 Fluid Mechanics
Concepts of the statics and dynamics of fluids, with emphasis on principles of continuity, momentum and energy. Boundary layers, dimensional analysis and drag are covered briefly. Thorough treatment of pipe flow. (Same as ME 351). Prerequisites: MEC-ENGR 285, MATH 345, or ME 272

CIV-ENGR 355WI Water Resource Engineering
Design and analysis of water resource infrastructure. Applied surface water hydrology, analysis of pipeline systems, design of pumping plants and power generation, cavitation, water hammer, valves operations, open channel flow in rigid channels, gradually varied and rapidly varied flow. Prerequisites: CIV-ENGR 319, CIV-ENGR 351, WEPT passed

CIV-ENGR 357 Engineering Hydraulics
Analysis and design of closed conduit systems for water supply; fundamentals of open channel flow; principles of pumping and hydropower generation; transients and control of surge pressures in pipelines. Prerequisites: CE 351 Fluid Mechanics

CIV-ENGR 378WI Civil Engineering Materials
Composition, structure, properties, behavior and selection of civil engineering materials. Prerequisite: CIV-ENGR 276, Chem 211 and 211L, WEPT passed, and Machine Shop Safety

CIV-ENGR 378WI Civil Engineering Materials
Composition, structure, properties, behavior and selection of civil engineering materials. Prerequisite: CIV-ENGR 276, Chem 211 and 211L, WEPT passed, and Machine Shop Safety

CIV-ENGR 378WI Civil Engineering Materials
Composition, structure, properties, behavior and selection of civil engineering materials. Prerequisite: CIV-ENGR 276, Chem 211 and 211L, WEPT passed, and Machine Shop Safety

CIV-ENGR 390 Engineering Coop/Internship
Students may participate in structured Engineering Coop/Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211

CIV-ENGR 390 Engineering Coop/Internship
Students may participate in structured Engineering Coop/Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211

CIV-ENGR 400 Problems
Directed investigation of civil engineering problems. Prerequisite: Instructor's consent

CIV-ENGR 400 Problems
Directed investigation of civil engineering problems. Prerequisite: Instructor's consent

CIV-ENGR 401 Topics In Civil Engineering
Study of current and new technical developments in civil engineering.

CIV-ENGR 401 Topics In Civil Engineering
Study of current and new technical developments in civil engineering.

CIV-ENGR 401A Special Topics In Civil Engineering
CIV-ENGR 401A Special Topics In Civil Engineering

CIV-ENGR 401BE Topics in Civil Engineering

CIV-ENGR 401D Topics In Civil Engineering

CIV-ENGR 401DM Topics In Civil Engineering

CIV-ENGR 401EH Topics in Civil Engineering

CIV-ENGR 401G Topics In Civil Engineering

CIV-ENGR 401GB Topics In Civil Engineering

CIV-ENGR 401HA Topics In Civil Engineering

CIV-ENGR 401J Special Topics In Civil Engineering
Study of current and new technical developments in civil engineering.

CIV-ENGR 401PM Topics in Civil Engineering

CIV-ENGR 401SP Special Topics In Civil Engineering

CIV-ENGR 401SV Topics in Civil Engineering
Study of current and new technical developments in civil engineering.

CIV-ENGR 401SW Topics in Civil Engineering
Study of current and new technical developments in civil engineering.

CIV-ENGR 401X Topics in Civil Engineering

CIV-ENGR 409 Fundamentals of Engineering Review
This course consists of a series of lectures and is intended as a review class for all the subjects included in the Fundamentals of Engineering exam. Classes specifically focus on the review of equations and formulas included in the reference handbook published by NCEES. (Cross-listed with ME 409 and EE 401FE).

CIV-ENGR 409 Fundamentals of Engineering Review
This course consists of a series of lectures and is intended as a review class for all the subjects included in the Fundamentals of Engineering exam. Classes specifically focus on the review of equations and formulas included in the reference handbook published by NCEES. (Cross-listed with ME 409 and EE 401FE).

CIV-ENGR 411 Civil Engineering Systems Design I
Comprehensive and realistic design project using the systems approach. Design choices and their effect upon the environment. Design constraints include constructability, minimization of environmental impact, and cost-effectiveness. Managerial and professional aspects of design practice. Prerequisite: CE 357, CE 467, CE 323 (or CE422WI)

CIV-ENGR 412 Civil Engineering Systems Design II
Continuation of CIV-ENGR 411 Prerequisite: CIV-ENGR 411

CIV-ENGR 415 Engineering Leadership and Ethics
Analysis of leadership, including 360-degree assessment of students' leadership. Discussion of leadership cases and application to
CIV-ENGR 421 Matrix Methods Of Structural Analysis
An introduction to the fundamentals of stiffness and flexibility methods for analysis of truss and frame structures. Application of the computer programs to three dimensional structures. Prerequisite: CIV-ENGR 321.

CIV-ENGR 422WI Reinforced Concrete Design
Basic principles of reinforced concrete design. Design of beams for flexure and shear; design of short and slender columns. Bond stress development. Footing design. Prerequisite: CIV-ENGR 321, WEPT passed

CIV-ENGR 423 Advanced Structural Steel Design
Design of steel structures and bridges. Topics include composite beams, plate girder design, and moment resistant connections. Prerequisite: CIV-ENGR 323.

CIV-ENGR 425 Prestressed Concrete

CIV-ENGR 427 Advanced Reinforced Concrete Design
Advanced topics in the design of footings, retaining walls, two way floor slabs, torsion and continuous structures, shear friction, strut and tie design, precast design. Prerequisites: CE 422

CIV-ENGR 429 Design of Structures for Blast and Fire
General overview of Blast Design; risk assessment and design criteria; simplifies Blast Effects Analysis; ground shock, material response; antiterrorism design considerations; weapons effects and mitigation; internal explosions; progressive collapse analysis; and introduction to Fire Design.

CIV-ENGR 430 Reinforced Concrete Theory and Design
Advanced design of reinforced concrete structures; review of standard codes and specifications and their influence. Prerequisite: CE 375 or equivalent.

CIV-ENGR 431 Fundamentals of Geomaterial Characterization
Overviews state-of-the-art instrumental techniques for analysis of the physio-chemical properties of soils and civil engineering materials. Analysis techniques will be presented for soils, fresh and hardened concrete, asphalt binders and metals. (Cross-listed with CE 5531) Prerequisites: CE 335; CE 378WI

CIV-ENGR 432 Foundation Engineering
Design of basic foundation structures, footings, retaining walls, pile foundations, dams. Prerequisite: CIV-ENGR 335.

CIV-ENGR 442 Hydraulic Structures
A review of the history and hydraulic design procedures for a variety of hydraulic structures including spillways, water measurement structures, canal structures and energy dissipation structures. (Cross-listed with CE 5542.) Prerequisites: CE 355WI

CIV-ENGR 443 Hazardous Waste Management
Engineering principles involved in handling, collection, transportation, processing and disposal of hazardous wastes, waste minimization, legislation on hazardous wastes and groundwater contamination. Prerequisite: MEC-ENGR 285 and CIV-ENGR
CIV-ENGR 443 Hazardous Waste Management
Engineering principles involved in handling, collection, transportation, processing and disposal of hazardous wastes, waste minimization, legislation on hazardous wastes and groundwater contamination. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211

CIV-ENGR 444 Unit Processes in Environmental Engineering
Chemical and physical relationships as applied to unit processes of water and wastewater. Prerequisite: CIV-ENGR 342.

CIV-ENGR 446 Limnology
Physical, biological and chemical issues important in surface fresh waters. Includes carbonate chemistry, algal assay and thermocline analysis. Prerequisites: MATH 345, CHEM 211

CIV-ENGR 447 Contracts and Law for Engineers
Law of contracts, including types, construction, interpretation, performance, and termination. Construction and Engineering service contracts: proposals, general and financial conditions, specifications and drawings. Corporate and professional and person liability, insurance and bonds, property, evidence, arbitration and mediation. Offered: Fall

CIV-ENGR 448 Environmental Public Policy
Engineering and economic aspects of environmental policy. Basic understanding of environmental statutes and case law. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211

CIV-ENGR 449 Environmental Compliance, Auditing And Permitting
Statutes, regulations and permitting for air hazardous wastes and storage tanks. Asbestos, radon, EMF, and emerging areas of regulatory concern. Siting issues. Criminal and civil enforcement. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211

CIV-ENGR 452 Hydraulics Of Open Channels
Gradually varied flow and theory of the hydraulic jump. Slowly varied flow involving storage; rating curves. Prerequisite: CIV-ENGR 351.

CIV-ENGR 455 Urban Hydrology
An introduction to urban hydrology and urban drainage systems focusing on the engineering techniques and unique issues associated with estimating and designing for rainfall/runoff in an urban metropolitan area. (Cross-listed with CE 5556.) Prerequisites: CE 355WI

CIV-ENGR 463 The Engineer in Society
Broad concepts in law as related to business industry and the processes of design, procurement, construction, and the role of the design professional.
CIV-ENGR 465 Engineering Administration
Cash flow analysis, financial analysis, managerial accounting and cost control, budgeting, organizational structure and behavior. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211.

CIV-ENGR 465 Engineering Administration
Cash flow analysis, financial analysis, managerial accounting and cost control, budgeting, organizational structure and behavior. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211.

CIV-ENGR 466 Green Building and Sustainable Infrastructure
All construction projects must not only consider the immediate cost, but must also consider the future environmental impacts. Green building programs are one mechanism to quantify the "greenness" of construction, including LEED, Green Globes/BREEM, and many others. Green rating systems are also in development for residential subdivisions, highways, roads, and airports. Upon completion of this course students will be prepared for LEED Professional Accreditation Exam for New Construction. Two major additional aspects of green building important to sustainable infrastructure include stormwater management using "green" techniques and methods to mitigate the urban heat island. The course will also discuss infrastructure project sustainability from a life cycle cost perspective and determining the life cycle inventory of various materials. This course will include many knowledgeable guest speakers to bring a current and real world connection to the topics discussed in class. Upon completion of the course, students will better understand what sustainability means and how it applies in the context of our build environment and have a good idea of how technology will impact our sustainable future.

CIV-ENGR 467 Introduction To Construction Management
Structure of the construction industry; construction drawings and specifications; estimating and bidding; construction contracts, bonds and insurance; planning and scheduling of construction operations; project management; computer techniques. Prerequisite: ME 285; CE 211; CE 335

CIV-ENGR 468 Construction Planning And Scheduling
Planning and scheduling of construction operations by the critical path method. Network diagramming, scheduling computations, and time-cost trade-offs. Manpower and equipment leveling. Computer and non-computer techniques. Prerequisite: ME 285, CE 211, and ME 467

CIV-ENGR 469 Construction Methods And Equipment
Introduction to methods used to plan, construct, and manage heavy civil projects. Topics will include development, project control, equipment productivity, earthmoving fundamentals, formwork design, and other issues in heavy civil projects. Prerequisites: ME 285, CE 211, and ME 467.

CIV-ENGR 470 Corrosion Engineering
This course will cover the physical interaction of metallic materials with their environment, called corrosion. Corrosion is an electrochemical process and the thermodynamics and kinetics of corrosion processes will be discussed. (Cross-listed with CE 5570.) Prerequisites: Chem 211/211L and CE 378WI

CIV-ENGR 471 Advanced Portland Cement Concrete
This course will cover topics such as cement chemistry, concrete proportioning, aggregates, mineral and chemical admixtures, fresh and hardened properties of concrete, and durability of concrete. Design and proportioning of concrete mixtures for desired fresh and hardened properties will be emphasized. Specialty concrete types such as high strength/high performance concrete, lightweight concrete, pervious concrete, high volume fly ash concrete, and fiber reinforced concrete will also be covered. Prerequisites: Chem 211/211L and CE 378WI.

CIV-ENGR 472 Advanced Mechanics Of Materials
Shear center; unsymmetric bending; curved beams; beams on elastic foundations; thick-walled cylinders. Energy methods. Torsion of noncircular sections. Theories of failure. Plate theory. Prerequisite: CIV-ENGR 276.

CIV-ENGR 472 Advanced Mechanics Of Materials
Shear center; unsymmetric bending; curved beams; beams on elastic foundations; thick-walled cylinders. Energy methods. Torsion of noncircular sections. Theories of failure. Plate theory. Prerequisite: CIV-ENGR 276.

CIV-ENGR 473 Durability of Civil Engineering Materials
Investigation of pavements and structures including steel, reinforced concrete, and plain concrete for a variety of applications and masonry and asphalt. Explores the identification, causes of, and remediation for issues related to metallic corrosion and concrete deterioration in civil engineering projects. Course content will be delivered through lectures, labs and case study examples. (Cross-listed with CE 5573) Prerequisites: CE 335, CE 378WI
CIV-ENGR 475 Seismic Design of Structures
Introduction to basic analysis and design principles for the seismic design of buildings (concrete, steel, wood). General seismic principles, codes and loads, static lateral force procedure, dynamic lateral force procedure, topics in rigidities of buildings. Prerequisites: ME 285 and CE 323 (or CE 422)

CIV-ENGR 481 Highway And Traffic Engineering
Principles of highway engineering and traffic analysis, road/vehicle performance, geometric alignment of highways, traffic analysis and queuing theory, signal design, statistical analysis of traffic data and highway drainage. Prerequisite: MEC-ENGR 285

CIV-ENGR 481 Highway And Traffic Engineering
Principles of highway engineering and traffic analysis, road/vehicle performance, geometric alignment of highways, traffic analysis and queuing theory, signal design, statistical analysis of traffic data and highway drainage. Prerequisite: MEC-ENGR 285

CIV-ENGR 484 Pavement Materials Design, Maintenance, and Rehabilitation
Traffic loading and volume, stress and deflection, characterization of pavement materials, design of flexible and rigid pavements, design of overlays, evaluation of pavement performance, maintenance techniques, and rehabilitation options. (Cross-listed with CE 5584) Prerequisite: CIV-ENGR 378WI.

CIV-ENGR 486 Finite Element Methods
(same as Mechanical and Aerospace Engineering 486). Prerequisite(s): CE375 or Mechanical and Aerospace Engineering 386.

CIV-ENGR 486 Planning and Geometric Design of Highways
Techniques of highway planning in rural and urban areas. Design of the visible elements of highways. Prerequisite: CIV-ENGR 481

CIV-ENGR 487 Applied Finite Element Analysis
The study of advanced simulation techniques for the solution to engineering problems. The use of Finite Element Method toward solving mechanical, structural, vibration and potential flow problems will be explored. The use of current commercial simulation tools will be used extensively. Prerequisite: MEC-ENGR 130, CIV-ENGR 275, Matrix Algebra Offered: Fall

CIV-ENGR 491 Unit Process Laboratory
Chemical and physical relationships as applied to unit processes of water and wastewater. Prerequisite: CE 292

CIV-ENGR 491 Internship
For International students who must register to cover off-campus employment which is approved as related to their degree by their departmental advisor and ISAO.

CIV-ENGR 491 Internship
For International students who must register to cover off-campus employment which is approved as related to their degree by their departmental advisor and ISAO.

CIV-ENGR 497 Engineering Hydrology
Fundamental concepts of hydrology in engineering; computation principles of runoff from rainfall; measurement of hydrologic quantities; quantitative and statistical estimation of design stream-flow magnitude and frequency; principles of unsteady routing of hydrographs. Prerequisites: CE 351 Fluid Mechanics and CE 319 Engineering Statistics

Computer Science (COMP-SCI)
COMP-SCI 100 Computer Survival: Applications
Hands-on experience using a computer as a tool to enhance learning. Use of an integrated software package which includes word processing, graphics, database, spreadsheet, and telecommunications applications. Not applicable to Computer Science major requirements. Prerequisites: MATH 110 or equivalent.

COMP-SCI 100 Computer Survival: Applications
Hands-on experience using a computer as a tool to enhance learning. Use of an integrated software package which includes word processing, graphics, database, spreadsheet, and telecommunications applications. Not applicable to Computer Science major requirements. Prerequisites: MATH 110 or equivalent.

COMP-SCI 101 Problem Solving And Programming I
Problem solving, algorithms, and program design. Use of structured programming, arrays, control structures, strings, searching,
sorting and files in C++. Introduction to object-oriented programming. Coding, testing and debugging using a modern development environment. Prerequisites: MATH 110 or equivalent.

COMP-SCI 111 Introduction to Computing
This course provides a broad and general introduction to the computing fields underlying computer science, information technology and computer engineering and its impact on humanity and society. It introduces important concepts of the field, including hardware, software, communications networks, algorithmic processes, information representation, and programming. The course is not programming oriented, but some light programming might be required. The course also introduces academic skills and strategies for success as a student and in a professional career.

COMP-SCI 190A Special Topics
Selected introductory topics in the area of computing. May be repeated for credit when topic varies. Prerequisite: Permission of Instructor

COMP-SCI 190C Special Topics
Selected introductory topics in the area of computing. May be repeated for credit when topic varies. Prerequisite: Permission of Instructor

COMP-SCI 191 Discrete Structures I
Mathematical logic, sets, relations, functions, mathematical induction, algebraic structures with emphasis on computing applications. Prerequisite: MATH 110

COMP-SCI 191 Discrete Structures I
Mathematical logic, sets, relations, functions, mathematical induction, algebraic structures with emphasis on computing applications. Prerequisite: MATH 110

COMP-SCI 1EC Computer Science Elective
Transfer Credit

COMP-SCI 201 Problem Solving And Programming II

COMP-SCI 201L Problem Solving and Programming II - Lab

COMP-SCI 201R Problem Solving And Programming II
Problem solving and programming using classes and objects. Algorithm efficiency, abstract data types, searching and sorting, templates, pointers, linked lists, stacks and queues implemented in C++. Prerequisites: COMP-SCI 101, COMP-SCI 191. (Must be passed with a C or higher). Concurrent enrollment in Comp-Sci 201L required.

COMP-SCI 222 Multimedia Production And Concepts
Multimedia production and concepts will give an overview of multimedia technology and communication theory needed to deliver information and to produce interactive presentations for the web, for CD-ROM, and for in-person presentations and demos. The course offers exposure to software, hardware, other multimedia technologies, authoring and copyright matters. Prerequisite(s): CS 101

COMP-SCI 243 C And Unix
Syntactics and semantics of C applied to dynamic structures, recursion, abstract data types, libraries. General introduction to UNIX operating system and UNIX file system, and use of UNIX system calls in C. Prerequisite: COMP-SCI 101.

COMP-SCI 243 C And Unix
Syntactics and semantics of C applied to dynamic structures, recursion, abstract data types, libraries. General introduction to UNIX operating system and UNIX file system, and use of UNIX system calls in C. Prerequisite: COMP-SCI 101.

COMP-SCI 246 Introduction To C++
Syntax and semantics of C++ applied to object oriented programming concepts of abstract data type, classes, data hiding, polymorphism and inheritance. Prerequisite: COMP-SCI 201, COMP-SCI 243.
COMP-SCI 246 Introduction To C++
Syntax and semantics of C++ applied to object oriented programming concepts of abstract data type, classes, data hiding, polymorphism and inheritance. Prerequisite: COMP-SCI 201, COMP-SCI 243.

COMP-SCI 281 Introduction To Computer Architecture
Data representation, number systems, Boolean algebra, combinatorial components, sequential logic, processor design, computer organization and design, input and output organization. Prerequisite: COMP-SCI 191

COMP-SCI 281R Introduction To Computer Architecture and Organization
Digital Logic and Data Representation, process architecture and instruction sequencing, memory hierarchy and bus-interfaces and functional organization. Prerequisite: COMP-SCI 101, COMP-SCI 191. (Must be passed with a C or higher).

COMP-SCI 282 Assembler Language Programming
Use of an assembler language for a virtual machine, internal representation of data and instructions, the assembly process, linking, loading and program relocation and execution. I/O, exception handling, alternative architectures. Prerequisite: COMP-SCI 201R and COMP-SCI 281R.

COMP-SCI 282 Assembler Language Programming
Use of an assembler language for a virtual machine, internal representation of data and instructions, the assembly process, linking, loading and program relocation and execution. I/O, exception handling, alternative architectures. Prerequisite: COMP-SCI 201R and COMP-SCI 281R.

COMP-SCI 291 Discrete Structures II
Recurrence relations and their use in the analysis of algorithms. Graphs, trees, and network flow models. Introduction to Finite state machines, grammars, and automata. Prerequisite: COMP-SCI 191 or ECE 226 and E&C-ENGR 227 for ECE students.

COMP-SCI 303 Data Structures
Linear and hierarchical data structures, including stacks, queues, lists, trees, priority queues, advanced tree structures, hashing tables, dictionaries and disjoint-set. Abstractions and strategies for efficient implementations will be discussed. Linear and hierarchical algorithms will be studied as well as recursion and various searching and sorting algorithms. Programming concepts include Object Orientation, concurrency and parallel programming. Several in-depth projects in C++ will be required. Prerequisites: Comp-Sci 191 and either Comp-Sci 201 or both Comp-Sci 201R and Comp-Sci 201L. All prerequisites must be passes with C or higher. Offered: Every Semester

COMP-SCI 304WI Ethics And Professionalism
Societal and ethical obligations of computer science, information technology, and electrical/computer engineering practice. Topics include obligations of professional practice, electronic privacy, intellectual property, ethical issues in networking, computer security, computer reliability, and whistle-blowing. Prerequisites: ENGL 225 (Freshman English II) or equivalent and completion of Written English Proficiency Test (WEPT)

COMP-SCI 311 Introduction To Circuits And Devices
Electric charge and electric energy, Kirchoff's law for current and voltage, analysis of DC circuits, Thevenin and Norton equivalent, inductors and capacitors, transient response of RL and RC circuits, AC circuit analysis and effective value AC signals, and Laplace Transform method for transient analysis. Prerequisites: MATH 220 and PHYSICS 250. Offered: Every Year Restrictions: None

COMP-SCI 317 Telecommunications: Management & Legal Issues
Analysis of financial and legal issues surrounding the domestic telecommunications industry. Ratio analysis; capital structure; regulatory implications on the convergence of computers and communications; recent FCC trends in regulation and policy; market structure; impact of new technologies; background and analysis of the Communications Act of 1934 and major amendments to date.

COMP-SCI 321 Intro To Computing Resources Administration
A system administrator is a technical person in charge of computing resources for an organization. This person cares for the computing system and responds to the users computing needs. This introductory course is designed to give an overview of a wide variety of technical, interpersonal, documentation, and managerial skills needed to become an effective systems administrator. Prerequisite(s): CS 352

COMP-SCI 349 Java Programming With Applications
The course covers the syntax and semantics of the Java programming language along with the use of essential class libraries. These topics will be taught in the context of application development. Students will learn how to write small to medium sized Java applications and applets. Specific topics covered include: essential classes in the Java API, interfaces, inheritance,
exceptions, graphical user interface components, layout managers, events, I/O classes, Applets, data base access, and multi-threading. Prerequisite: COMP-SCI 201 or equivalent Offered: Every Semester

COMP-SCI 350 Interactive Computing
Use of APL for computation and for instruction. Primitive function, function definition and editing. System commands, workspace and libraries. Projects include both computational use and instructional techniques in either programmed instruction or simulation. Introduction to BASIC and TSO. Equivalent to Math. 351.

COMP-SCI 352 Data Structures And Algorithms
Abstract data structures and analysis of associated algorithms, abstractions as separate from implementation. Structures include lists, trees, priority queues, advanced tree structures, hashing tables, and graphs. Comparison of efficiency of algorithms as implemented with various data structures. Advanced searching and sorting algorithms, shortest paths, spanning tree and flow algorithms. Introduction to the basic concepts of NP-complete problems. Prerequisites: must be passed with a C or higher COMP-SCI 201 (or E&C-ENGR 216 for ECE students), COMP-SCI 291, MATH 210.

COMP-SCI 371 Database Design, Implementation And Validation
This course discusses in detail all aspects of ORACLE database management systems. It covers in detail database design, implementation, and validation using ORACLE. In addition to these, it briefly covers ORACLE implementation, tuning, and implementation. The course is suitable for undergraduates and professional alike. Prerequisite: COMP-SCI 352 or COMP-SCI 303.

COMP-SCI 375 Introduction To Computer Graphics
Interactive Computer Graphics, Hardware Interaction, 3D transformations, Shading, Lighting and Texturing. Prerequisite: COMP-SCI 303 or COMP-SCI 352.

COMP-SCI 393 Numerical Analysis And Symbolic Computation
Basic elements of numerical analysis: numerical solution of algebraic equations, solution of linear simultaneous algebraic equations, matrices, eigenvalues and eigenvectors, numerical integration and numerical solution of linear differential equations. Use of a symbolic manipulator on both symbolic and numerical computation, applied to the above listed basic elements of numerical analysis. Prerequisites: MATH 250, COMP-SCI 201, COMP-SCI 281.

COMP-SCI 394 Applied Probability
Basic concepts of probability theory. Counting and measuring. Probability, conditional probability and independence. Discrete, continuous, joint random variables. Functions of random variables. Sums of independent random variables and transform methods. Random number generation and random event generation. Law of large numbers, central limit theorem, inequalities. Their applications to CS and ECE areas are stressed. Prerequisites: Math 300, STAT 235, CS 201R, or ECE 216.

COMP-SCI 394R Applied Probability
Basic concepts of probability theory. Counting and measuring. Probability, conditional probability and independence. Discrete, continuous, joint random variables. Functions of random variables. Sums of independent random variables and transform methods. Random number generation and random event generation. Law of large numbers, central limit theorem, inequalities. Their applications to CS and ECE areas are stressed. Prerequisites: Math 300, STAT 235, CS 201R, or ECE 216.

COMP-SCI 404 Introduction To Algorithms and Complexity
A rigorous review of asymptotic analysis techniques and algorithms: from design strategy (such as greedy, divide-and-conquer, and dynamic programming) to problem areas (such as searching, sorting, shortest path, spanning trees, transitive closures, and other graph algorithms, string algorithms) arriving at classical algorithms with supporting data structures for efficient implementation. Throughout, the asymptotic complexity is studied in worst case, best case, and average case for time and/or space, using appropriate analysis techniques (recurrence relations, amortization). Introduction to the basic concepts of computability and NP-complete theory. Prerequisites: Comp-Sci 291, Comp-Sci 303 or Comp-Sci 352, (Must be passed with a C or higher). Preferred co-requisites Comp-Sci 394R and Math 300. Offered: Every Fall

COMP-SCI 411 Introduction To Telecommunications Systems
Representation of signals and systems, Fourier Series, Fourier Transform, transmission of signal through linear system, amplitude modulation systems, frequency and pulse modulation systems, sampling, time division multiplexing, digital modulation and noise
in modulation systems. Prerequisites: COMP-SCI 311, COMP-SCI 394R and MATH 250.

COMP-SCI 411 Introduction To Telecommunications Systems
Representation of signals and systems, Fourier Series, Fourier Transform, transmission of signal through linear system, amplitude modulation systems, frequency and pulse modulation systems, sampling, time division multiplexing, digital modulation and noise in modulation systems. Prerequisites: COMP-SCI 311, COMP-SCI 394R and MATH 250.

COMP-SCI 416 Telecommunications Systems: A Survey
Review of Telecommunications techniques; wire, radio, microwave, satellite and optical fiber communications systems; mobile phones, ISDN and broadband ISDN, Signalling System No. 7, CCITT telecommunication standards. Prerequisite: COMP-SCI 311 or consent of instructor.

COMP-SCI 417 Telecommunications Systems: A Survey
Review of Telecommunications techniques; wire, radio, microwave, satellite and optical fiber communications systems; mobile phones, ISDN and broadband ISDN, Signalling System No. 7, CCITT telecommunication standards. Prerequisite: COMP-SCI 311 or consent of instructor.

COMP-SCI 420 Introductory Networking and Applications
This introductory course examines the systems aspects of the different LAN/MAN/WAN models, including topics such as protocols, network operating systems, applications, management and wireless communication systems. It also examines how the different models are interconnected using bridges and routers. NOTE: NOT FOR GRADUATE CREDIT. Prerequisites: Senior Standing/Consent of Instructor

COMP-SCI 420 Theory Of Programming Languages
Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix and postfix notation; global properties of algorithmic languages including scope of declarations, storage allocation, grouping of statements, binding time of constituents, subroutines, coroutines and tasks; list of processing, string manipulation, and simulation languages; run-time representation of program and data structures. Prerequisite: CS 340. Equivalent to Math 421.

COMP-SCI 421 Fundamentals Of Data Communication

COMP-SCI 421 Fundamentals Of Data Communication

COMP-SCI 421A Foundations of Data Networks
This introductory course examines the analytical aspects of data communications and computer networking. Topics cover protocol concepts and performance analysis that arise in physical, data link layer, MAC sub layer, and network layer. Prerequisites: COMP-SCI 291, COMP-SCI 303, COMP-SCI 394R.

COMP-SCI 421A Foundations of Data Networks
This introductory course examines the analytical aspects of data communications and computer networking. Topics cover protocol concepts and performance analysis that arise in physical, data link layer, MAC sub layer, and network layer. Prerequisites: COMP-SCI 291, COMP-SCI 303, COMP-SCI 394R.

COMP-SCI 423 Client/Server Programming And Applications
Fundamentals of Client/Server programming using socket interface; features of network programming including connection oriented and connectionless communication in multiple environments (Windows, UNIX, and Java); other client/server mechanisms, such as RPC and RMI) and formal object environments designed to facilitate network programming (CORBA, COM and Beans). Prerequisites: COMP-SCI 352, or COMP-SCI 303 and COMP-SCI 431.

COMP-SCI 423 Client/Server Programming And Applications
Fundamentals of Client/Server programming using socket interface; features of network programming including connection oriented and connectionless communication in multiple environments (Windows, UNIX, and Java); other client/server mechanisms, such as RPC and RMI) and formal object environments designed to facilitate network programming (CORBA, COM and Beans). Prerequisites: COMP-SCI 352, or COMP-SCI 303 and COMP-SCI 431.

COMP-SCI 431 Introduction To Operating Systems
Concurrency and control of asynchronous processes, deadlocks, memory management, processor and disk scheduling, parallel processing, file system organization. Prerequisites: COMP-SCI 352 or COMP-SCI 303, and COMP-SCI 281R (or both E&C-
ENGR 226 and EDE 227 for ECE students).

COMP-SCI 431 Introduction To Operating Systems
Concurrency and control of asynchronous processes, deadlocks, memory management, processor and disk scheduling, parallel processing, file system organization. Prerequisites: COMP-SCI 352 or COMP-SCI 303, and COMP-SCI 281R (or both E&C-ENGR 226 and EDE 227 for ECE students).

COMP-SCI 441 Programming Languages: Design And Implementation
Programming language paradigms (Object oriented programming, functional programming, declarative programming, and scripting) and design tradeoffs in terms of binding, visibility, scope, lifetime, type-checking and abstraction. Programming language specification, grammar, lexical analysis, exception handling, and runtime considerations. Prerequisite: COMP-SCI 352.

COMP-SCI 444 Compiler/Translator Design
This course will teach modern compiler techniques applied to both general-purpose and domain-specific languages. The examples chosen will also convey a detailed knowledge of state-of-the-art based WWW technology. The fundamental goal of programming is to provide instructions to the computer hardware. The primary purpose of the compiler/translator is to facilitate communication from the programmer via some high level language to ultimately the computer hardware. Understanding how compiler/translations are built and operate is important to understanding efficiency of operation and storage. Prerequisite: COMP-SCI 352.

COMP-SCI 444 Compiler/Translator Design
This course will teach modern compiler techniques applied to both general-purpose and domain-specific languages. The examples chosen will also convey a detailed knowledge of state-of-the-art based WWW technology. The fundamental goal of programming is to provide instructions to the computer hardware. The primary purpose of the compiler/translator is to facilitate communication from the programmer via some high level language to ultimately the computer hardware. Understanding how compiler/translations are built and operate is important to understanding efficiency of operation and storage. Prerequisite: COMP-SCI 352.

COMP-SCI 449 Foundations of Software Engineering
The course introduces concepts of Software Engineering (definitions, context) and the Software Development Process (life cycle). Students will get a solid foundation in Agile methodology, SW requirements, Exceptions and Assertions, Verification and Validation, SW Models and modeling, and User Interface Design. Various SW Architectures will be discussed. Prerequisites: Comp-Sci 303 or Comp-Sci 352 (Must be passed with a C or higher).

COMP-SCI 451 Software Engineering
Introduction to all phases of the software life cycle including planning, requirements analysis, system specification, design, construction, testing, deployment, and maintenance. Evaluation of engineering methods, processes, techniques, and measurements. Analyzing and modeling software artifacts, assessing and controlling quality. Software evolution and reuse. Estimation and measurement of project and product attributes including cost, schedule, and productivity and quality. Nontechnical considerations including organization, project management and professionalism. Students work together in small teams to complete a sizable software project. Prerequisite: COMP-SCI 352.

COMP-SCI 451R Software Engineering Capstone
The course will focus on the requirements and project planning and managing of medium sized projects with deliverables of each phase of the software life cycle. Additional studies of software modeling, requirements specifications, configuration management, verification, validation, software evolution and quality and finally measurement, estimation and economics of the software process. Prerequisites: COMP-SCI 352 or COMP-SCI 449

COMP-SCI 456 Human Computer Interface
Design of human-computer interfaces considering the psychological and physical abilities of the user. User interface design from a functional and ergonomic perspective. Contents organization, visual organization, navigation. Use of graphical interface (GUI) and the development of high quality user interfaces. Prerequisites: COMP-SCI 451.

COMP-SCI 457 Software Architecture: Requirements & Design
Introduction to requirements and design engineering with emphasis on organization and presentation of system requirements and designs for customers, users and engineers; validation of requirements and design with needs of system customer; examination of requirement and design changes during the lifetime of a system; transformation of informal ideas into formal detailed descriptions; examination of the different stages in the design process including architectural design, interface design and data structure design, database design, program and transaction design; examination of domain modeling criteria and examination of design quality attributes. Also discusses non-functional attributes and project resource allocation. Prerequisite(s): COMP-SCI 352.
COMP-SCI 458  Software Architecture: Testing & Maintenance  
Introduction of software system testing (including verification), software process, software reuse, software maintenance, and software re-engineering. Prerequisite(s): COMP-SCI 352.

COMP-SCI 461  Introduction To Artificial Intelligence  
Search space generation, pruning and searching, employment of heuristics in simulation of the cognitive process, an overview of predicate calculus, automatic theorem proving. Prerequisite: COMP-SCI 441.

COMP-SCI 464  Applied Artificial Intelligence  

COMP-SCI 470  Introduction To Database Management Systems  
Database architecture, Data independence, Schema, E-R and Relational Database modeling, Relational algebra and calculus, SQL, File organizations, Relational database design, Physical database organization, Query processing and optimization, Transaction structure and execution, Concurrency control mechanism, Database recovery, database security. Prerequisites: COMP-SCI 352, COMP-SCI 431 (Recommended co-requisite).

COMP-SCI 471  Database Design, Implementation And Validation  
This course discusses in detail all aspects of ORACLE database management systems. It covers in detail database design, implementation, and validation using ORACLE. In addition to these, it briefly covers ORACLE implementation, tuning, and implementation on Window NT. The course is suitable for undergrad seniors and professional alike. Prerequisite: COMP-SCI 352.

COMP-SCI 475  Introduction To Computer Graphics  

COMP-SCI 481  Advanced Computer Architecture  

COMP-SCI 490  Special Topics  
Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

COMP-SCI 491  Special Topics  
Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

COMP-SCI 490CI  Special Topics

COMP-SCI 490IS  Special Topics
COMP-SCI 490SI Special Topics

COMP-SCI 490SM Special Topics

COMP-SCI 491 Internship
Students may participate in structured internships under the joint supervision of an employer and a faculty member. The student must carry out significant professional responsibilities that also have academic merit. The number of credit hours is based on the quality of the academic experience. Available for credit/no credit only and students must be in good standing with at least 18 credit hours of CS/IT counting towards the degree. Registration by consent number only; petition forms for CS/IT 491 Internships are available in the office of CSEE Division and on the web. Prerequisite: Junior level or above and consent of instructor. Offered: Every Semester Restrictions: None

COMP-SCI 491 Internship
Students may participate in structured internships under the joint supervision of an employer and a faculty member. The student must carry out significant professional responsibilities that also have academic merit. The number of credit hours is based on the quality of the academic experience. Available for credit/no credit only and students must be in good standing with at least 18 credit hours of CS/IT counting towards the degree. Registration by consent number only; petition forms for CS/IT 491 Internships are available in the office of CSEE Division and on the web. Prerequisite: Junior level or above and consent of instructor. Offered: Every Semester Restrictions: None

COMP-SCI 493 Introduction To Computability, Formal Languages And Automata

COMP-SCI 494R Applied Stochastic Models
Review of basic probability including properties of joint random variables and functions of random variables. Discrete and continuous random processes, such as the Poisson process, Brownian motion, and white Gaussian noise. Linear filtering of random processes. Markovian birth and death processes and elementary queuing theory. Prerequisite: CS 394R or permission from instructor Offered: Fall Semester Restrictions: None

COMP-SCI 497 Directed Readings
Readings in an area selected by an undergraduate student in consultation with a faculty member. Arrangements must be made prior to registration.

COMP-SCI 497 Directed Readings
Readings in an area selected by an undergraduate student in consultation with a faculty member. Arrangements must be made prior to registration.

COMP-SCI 498 Research Seminar
Undergraduate research based on intensive readings from the current research literature under the direction of a faculty member. Arrangements must be made prior to registration.

COMP-SCI 498 Research Seminar
Undergraduate research based on intensive readings from the current research literature under the direction of a faculty member. Arrangements must be made prior to registration.

COMP-SCI 499 Undergraduate Research
Completion of project, including a final written report, under the direction of a faculty member. A prospectus must be accepted prior to registration.

COMP-SCI 499 Undergraduate Research
Completion of project, including a final written report, under the direction of a faculty member. A prospectus must be accepted prior to registration.

Electrical and Computer Engineering (E&C-ENGR)
E&C-ENGR 110 Introduction to Electrical and Computer Engineering
Introduction to the profession of electrical and computer engineering, other engineering disciplines, ethics, environmental responsibility, student success strategies, and teamwork.
E&C-ENGR 110 Introduction to Electrical and Computer Engineering
Introduction to the profession of electrical and computer engineering, other engineering disciplines, ethics, environmental responsibility, student success strategies, and teamwork.

E&C-ENGR 216 Engineering Computation
Development, analysis and synthesis of structured computer programs for solving engineering problems in the Python, MATLAB, and C languages. Introduction to algorithms and data structures. Prerequisite: Math 110 or equivalent

E&C-ENGR 226 Logic Design
Design of combinational logic circuits, logic minimization techniques, design of RAM, ROM, PLA, PAL, design of sequential logic circuits, state machine design techniques, digital system design. Must be taken concurrently with E&C-ENGR 227.

E&C-ENGR 227 Logic Design Laboratory
Laboratory for 226. Experimental topics related to the design of combinational and sequential logic systems and small digital systems. Co-requisite: E&C-ENGR 226.

E&C-ENGR 228 Introduction to Computer Design
This course covers computer organizations and fundamental computer design techniques. It also discusses design of computer data unit, control unit, input-output, microprogramming. Memory systems (RAM memory, Cache memory, interrupts, secondary memory) and direct memory access design is also discussed. Verilog HDL design is introduced and applied to small digital systems. Prerequisites: E&C-ENGR 226 and E&C-ENGR 227.

E&C-ENGR 229 Introduction to Computer Design Laboratory
This laboratory course covers experimental topics related to the design of digital computer systems and arithmetic circuits which students study in the E&C-ENG 288. Prerequisites: E&G-ENG 226 and E&G-ENG 227, and must be taken concurrently with E&C-ENG 228.

E&C-ENGR 230 Biological Engineering
An introductory course that examines biological systems from an engineering viewpoint using engineering models. The student is introduced to friendly computer tools to model system behavior of first and second order systems and the effects of diffusion. The tools are then used to study neuron models in terms of diffusion, charge drift and the Einstein relation, ion pumps, membrane potential and the Goldman equation. The tools are then used to study closed loop models of human muscles, eye movements and the body's thermoregulation system. Prerequisites: Math 210 and some computer programming skills

E&C-ENGR 241 Applied Engineering Analysis I

E&C-ENGR 241 Applied Engineering Analysis I
Prerequisites: Math 220 and PHYSICS 250. Co-requisite: Physics 240.

**E&C-ENGR 250** Engineering Mechanics and Thermodynamics
This course concentrates on practical concepts in mechanics and thermodynamics for ECE majors, such as the practical use of forces, moments, couples, centroids, and moment of inertia, friction, manipulating systems of rigid bodies in motion and applying conservation of energy to gases, liquids, and solids. Materials will also be addressed. Prerequisites: MATH 220 and PHYSICS 240.

**E&C-ENGR 250** Engineering Mechanics and Thermodynamics
This course concentrates on practical concepts in mechanics and thermodynamics for ECE majors, such as the practical use of forces, moments, couples, centroids, and moment of inertia, friction, manipulating systems of rigid bodies in motion and applying conservation of energy to gases, liquids, and solids. Materials will also be addressed. Prerequisites: MATH 220 and PHYSICS 240.

**E&C-ENGR 276** Circuit Theory I
Kirchoff's circuit laws, Ohm's Law, nodal and mesh analyses, source transformations, superposition, Thevenin and Norton equivalents, transient analysis of 1st and 2nd order systems. AC circuit analysis, phasors, impedance, sinusoidal steady-state responses, operational amplifiers and PSpice Prerequisites: Physics 250 with E&C-ENGR 341R concurrently Restrictions: open to all ECE majors; all others by permissions

**E&C-ENGR 276** Circuit Theory I
Kirchoff's circuit laws, Ohm's Law, nodal and mesh analyses, source transformations, superposition, Thevenin and Norton equivalents, transient analysis of 1st and 2nd order systems. AC circuit analysis, phasors, impedance, sinusoidal steady-state responses, operational amplifiers and PSpice Prerequisites: Physics 250 with E&C-ENGR 341R concurrently Restrictions: open to all ECE majors; all others by permissions

**E&C-ENGR 277** Circuit Theory I Lab
Introduction to the use and limitations of basic instruments used in electrical testing and measurement. Experimental techniques and laboratory safety. Data gathering, interpretation and presentation. Preparation of laboratory reports. Experimental work supporting theoretical concepts developed in E&C-ENGR 276. Must be taken with E&C-ENGR 276

**E&C-ENGR 277** Circuit Theory I Lab
Introduction to the use and limitations of basic instruments used in electrical testing and measurement. Experimental techniques and laboratory safety. Data gathering, interpretation and presentation. Preparation of laboratory reports. Experimental work supporting theoretical concepts developed in E&C-ENGR 276. Must be taken with E&C-ENGR 276

**E&C-ENGR 277** Circuit Theory I Lab
Introduction to the use and limitations of basic instruments used in electrical testing and measurement. Experimental techniques and laboratory safety. Data gathering, interpretation and presentation. Preparation of laboratory reports. Experimental work supporting theoretical concepts developed in E&C-ENGR 276. Must be taken with E&C-ENGR 276

**E&C-ENGR 301** Fundamental Topics In Electrical And Computer Engineering
Undergraduate topics in electrical or computer engineering. Prerequisite: Instructor's consent. Offered: On demand.

**E&C-ENGR 301** Fundamental Topics In Electrical And Computer Engineering
Undergraduate topics in electrical or computer engineering. Prerequisite: Instructor's consent. Offered: On demand.

**E&C-ENGR 301EA** Topics in Electrical Engineering

**E&C-ENGR 301ES** Topics in Electrical Engineering

**E&C-ENGR 302** Electromagnetic Waves and Fields
Maxwell's equations plane waves in lossless and lossy media transmission line theory and Smith Chart - single stub matching rectangular waveguides - TE and TM modes rectangular cavity resonators electromagnetic radiation from Hertzian point sources,
dipole and look antennas simple linear arrays Friis formula for radar and wireless systems. Prerequisites: PHYS 250 ECE 341 R, and ECE 376 Restrictions SCE students only or with special permission.

**E&C-ENGR 302 Electromagnetic Waves and Fields**
Maxwell's equations plane waves in lossless and lossy media transmission line theory and Smith Chart - single stub matching rectangular waveguides - TE and TM modes rectangular cavity resonators electromagnetic radiation from Hertzian point sources, dipole and look antennas simple linear arrays Friis formula for radar and wireless systems. Prerequisites: PHYS 250 ECE 341 R, and ECE 376 Restrictions SCE students only or with special permission.

**E&C-ENGR 303 Traveling Waves And Fields-Laboratory**
Students will be required to write computer programs that exploit the MATLAB toolbox features and write short technical reports on the results. Typical projects are: (a) signal amplitude and delay distortion on lossy transmission lines, (b) performance comparison of transient behavior of PCB, stripline, microstrip transmission line configurations and (c) cross-talk modeling on transmission lines (optional). Prerequisite: PSpice and MATLAB knowledge/proficiency. Co-requisite: E&C-ENGR 302

**E&C-ENGR 316 Microcomputer Fundamentals**
Computer arithmetic, combinational and sequential circuit analysis and design. Computer organization, bus control, input/output transfers, and interrupts. Introduction to microprocessor-based systems. Prerequisites: E&C-ENGR 216 with E&C-ENGR 317 concurrently. No longer offered, please see advisor.

**E&C-ENGR 317 Microcomputer Fundamentals Laboratory**
Laboratory for E&C-ENGR 316. Combinational and sequential logic. 8-bit microprocessors. No longer offered, please see advisor.

**E&C-ENGR 326 Logic Design**
Digital electronics, integrated circuit level logic design, algorithmic state machines, microprocessor architecture and interfacing and digital systems design methodology. Must be taken concurrent with E&C-ENGR 327. Prerequisites: E&C-ENGR 316 with a C or higher. No longer offered, please see advisor.

**E&C-ENGR 326 Microcomputer Architecture And Interfacing**
Digital electronics, integrated circuit level logic design, algorithmic state machines, microprocessor architecture and interfacing and digital systems design methodology. Must be taken concurrent with ECE 327. Prerequisites: ECE 316 with a C or higher. Offered: Winter

**E&C-ENGR 327 Logic Design Laboratory**
Laboratory for 326. Experimental topics related to the design of sequential logic systems and small digital systems. Must be taken concurrent with E&C-ENGR 326. Prerequisites: E&C-ENGR 317 with a C or higher. No longer offered, please see advisor.

**E&C-ENGR 327 Computer Architecture**
Laboratory for 326. Experimental topics related to the design of sequential logic systems and small digital systems. Must be taken concurrent with ECE 326. Prerequisites: ECE317 with a C or higher. Offered: Winter

**E&C-ENGR 330 Electronic Circuits**
Application of operational amplifiers, semiconductors device physics, elementary analysis and design of analog electronic circuits that utilize diodes, BJTs, and MOSFET's in single and multistage amplifiers with passive loads and power amplifiers; DC biasing, small signal analysis and calculation of frequency responses. The use of CAD (Spice) in the analysis and design of electronic circuits. Prerequisites: E&C-ENGR 276 with a C or higher. Co-requisite: E&C-ENGR 331

**E&C-ENGR 330 Electronic Circuits**
Application of operational amplifiers, semiconductors device physics, elementary analysis and design of analog electronic circuits that utilize diodes, BJTs, and MOSFET's in single and multistage amplifiers with passive loads and power amplifiers; DC biasing, small signal analysis and calculation of frequency responses. The use of CAD (Spice) in the analysis and design of electronic circuits. Prerequisites: E&C-ENGR 276 with a C or higher. Co-requisite: E&C-ENGR 331

**E&C-ENGR 331 Electronic Circuits Laboratory**
Laboratory experiments in the application of operational amplifiers, the analysis, design, and testing of single and multistage amplifiers with passive loads, and the measurement of frequency response. Prerequisites: E&C-ENGR 276 with a C and E&C-ENGR 277. Co-requisite: E&C-ENGR 330.

**E&C-ENGR 331 Electronic Circuits Laboratory**
Laboratory experiments in the application of operational amplifiers, the analysis, design, and testing of single and multistage

**E&C-ENGR 341** Engineering Mathematics
Linear homogeneous and inhomogeneous differential equations, Laplace transform with applications; trigonometric and complex (exponential) Fourier series; Fourier transforms; Z-transforms; Matrices & properties and definition; Gaussian elimination, linear systems, Cramer's rule, rank and inverse of a matrix; eigenvalue and eigenvectors. Their applications to transient analysis of electrical circuits, communication systems, EM theory, etc. will be discussed. Prerequisites: Math 250 and ECE 216. Students who have Math 345 should enroll in 3 credit hours.

**E&C-ENGR 341R** Applied Engineering Analysis II
Complex number; Euler's formulas, analytic functions, Taylor and Laurent series; Cauchy residue theorem and application to evaluation of integrals; linear algebra, eigenvalue and eigenvectors; Fourier series and transforms. Prerequisites: ECE 241 and PHYSICS 250.

**E&C-ENGR 358** Introduction to Control Systems
Study of feedback techniques, with applications to control systems. Includes modeling, applications of Bode plot, root locus, state-variable, and Nyquist methods. Prerequisite: E&C-ENGR 380.

**E&C-ENGR 366** Power Engineering
Magnetic circuitry in general and in machinery; DC machine theory, operation, applications; transformer circuits, synchronous machine theory, operation applications; basic principles of energy conversion; use of matrices; basic principles of power transmission and control. Prerequisites: E&C-ENGR 376 with E&C-ENGR 302 concurrently. Offered: Winter.

**E&C-ENGR 376** Circuit Theory II
Power, three-phase circuits, complex s-plane methods, resonance, frequency response, and two-port networks for circuit analysis. Prerequisites: E&C-ENGR 276 and must be taken concurrently with E&C-ENGR 377

**E&C-ENGR 376** Circuit Theory II
Power, three-phase circuits, complex s-plane methods, resonance, frequency response, and two-port networks for circuit analysis. Prerequisites: E&C-ENGR 276 and must be taken concurrently with E&C-ENGR 377

**E&C-ENGR 376** Distributed Transmission Systems
A continuation of ECE 276. R-L-C transients responses, complex s-plane methods, resonance, frequency response, two-port networks, Laplace transforms for circuit analysis. Prerequisite: ECE 377 concurrently. Offered: Every year; Fall.

**E&C-ENGR 377** Circuit Theory II Lab
Continuation of E&C-ENGR 277 introducing the use of additional instruments used in electrical testing and measurements. Statistical data evaluation methods. Experimental work supporting concepts developed in E&C ENGR 376. Prerequisites: E&C-ENGR 277 and must be taken concurrently with E&C-ENGR 376.

**E&C-ENGR 377** Circuit Theory II Lab
Continuation of E&C-ENGR 277 introducing the use of additional instruments used in electrical testing and measurements. Statistical data evaluation methods. Experimental work supporting concepts developed in E&C ENGR 376. Prerequisites: E&C-ENGR 277 and must be taken concurrently with E&C-ENGR 376.

**E&C-ENGR 377** Circuit Theory II Lab
Continuation of E&C-ENGR 277 introducing the use of additional instruments used in electrical testing and measurements. Statistical data evaluation methods. Experimental work supporting concepts developed in E&C ENGR 376. Prerequisites: E&C-ENGR 277 and must be taken concurrently with E&C-ENGR 376.

**E&C-ENGR 378** Systems Lab
Introduction to the use and limitations of basic instruments used in electrical testing and measurement. Experimental techniques
and laboratory safety. Data gathering, interpretation and presentation. Statistical data evaluation methods. Preparation of laboratory reports. Experimental work supporting theoretical concepts developed in E&C-ENGR 276. Prerequisite: E&C-ENGR 276.

E&C-ENGR 378 Microwave Principles

E&C-ENGR 380 Signals And Systems
Continuous and discrete-time signals and systems, linearity and time-invariance, impulse response and convolution. Fourier analysis of discrete and continuous signals and systems and the application of Laplace, z, and Fourier transforms. Prerequisite: E&C-ENGR 341R, and E&C-ENGR 381 concurrently.

E&C-ENGR 380 Signals And Systems
Continuous and discrete-time signals and systems, linearity and time-invariance, impulse response and convolution. Fourier analysis of discrete and continuous signals and systems and the application of Laplace, z, and Fourier transforms. Prerequisite: E&C-ENGR 341R, and E&C-ENGR 381 concurrently.

E&C-ENGR 380 Signals And Systems
Continuous and discrete-time signals and systems, linearity and time-invariance, impulse response and convolution. Fourier analysis of discrete and continuous signals and systems and the application of Laplace, z, and Fourier transforms. Prerequisite: E&C-ENGR 341R, and E&C-ENGR 381 concurrently.

E&C-ENGR 381 Signals And Systems Lab
Computer Laboratory for E&C-ENGR 380. Various signal processing software programs (MATLAB and DSP) are used to investigate properties and applications of continuous and discrete time signals and systems. Corequisite: E&C-ENGR 380.

E&C-ENGR 381 Signals And Systems Lab
Computer Laboratory for E&C-ENGR 380. Various signal processing software programs (MATLAB and DSP) are used to investigate properties and applications of continuous and discrete time signals and systems. Corequisite: E&C-ENGR 380.

E&C-ENGR 381 Signals And Systems Lab
Computer Laboratory for E&C-ENGR 380. Various signal processing software programs (MATLAB and DSP) are used to investigate properties and applications of continuous and discrete time signals and systems. Corequisite: E&C-ENGR 380.

E&C-ENGR 390 Engineering Coop/Internship
Students may participate in structured Engineering Coop/Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: Junior level or above or consent of instructor. Offered: Every semester.

E&C-ENGR 400 Problems In Electrical And Computer Engineering
Analytic or experimental problems pertaining to electrical or computer engineering. Prerequisites: Senior standing, instructor's approval and an approved petition from his or her degree coordinator.

E&C-ENGR 401 Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401 Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401AN Topics in Electrical Engineering

E&C-ENGR 401AS Topics In Electrical Engineering

E&C-ENGR 401CA Topics In Electrical Engineering
E&C-ENGR 401CI Topics in Electrical Engineering

E&C-ENGR 401DE Special Topics ECE

E&C-ENGR 401EC Topics In Electrical Engineering

E&C-ENGR 401EN Topics in Electrical Engineering

E&C-ENGR 401FE Topics In Electrical Engineering

E&C-ENGR 401FE Topics In Electrical Engineering

E&C-ENGR 401H Topics In Electrical And Computer Engineering

E&C-ENGR 401H Topics In Electrical And Computer Engineering

E&C-ENGR 401IR Topics In Electrical Engineering

E&C-ENGR 401NN Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401NN Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401PE Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401PE Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401PG Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401PL Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401PL Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401RB Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

E&C-ENGR 401RD Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and
instructor's approval.

**E&C-ENGR 401RS Topics In Electrical And Computer Engineering**
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

**E&C-ENGR 401RS Topics In Electrical And Computer Engineering**
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

**E&C-ENGR 401VL Topics in Electrical Engineering**

**E&C-ENGR 401WN Topics In Electrical And Computer Engineering**
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

**E&C-ENGR 401XX Topics In Electrical And Computer Engineering**
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

**E&C-ENGR 402WI Senior Design I**
First capstone design course in electrical and computer engineering. Provides and accounts for laboratory, library, research and other work needed for the development of the project proposal. Stresses written and oral presentations and ethics. Prerequisites: E&C-ENGR 302, E&C-ENGR 380, E&C-ENGR 430, and E&C-ENGR 428R. Must have passed the WEPT test and can only be taken if student is within three semesters of graduation.

**E&C-ENGR 402WI Senior Design I**
First capstone design course in electrical and computer engineering. Provides and accounts for laboratory, library, research and other work needed for the development of the project proposal. Stresses written and oral presentations and ethics. Prerequisites: E&C-ENGR 302, E&C-ENGR 380, E&C-ENGR 430, and E&C-ENGR 428R. Must have passed the WEPT test and can only be taken if student is within three semesters of graduation.

**E&C-ENGR 402WI Senior Design I**
First capstone design course in electrical and computer engineering. Provides and accounts for laboratory, library, research and other work needed for the development of the project proposal. Stresses written and oral presentations and ethics. Prerequisites: E&C-ENGR 302, E&C-ENGR 380, E&C-ENGR 430, and E&C-ENGR 428R. Must have passed the WEPT test and can only be taken if student is within three semesters of graduation.

**E&C-ENGR 403 Senior Design II**
Second capstone design course in electrical and computer engineering. Project management, professional engineering practice, economic, environmental and safety considerations in project design, the development of written and oral presentation skills and working in teams. Provides laboratory experiences in prototyping, fabrication and troubleshooting of a design project. Prerequisite: E&C-ENGR 402WI.

**E&C-ENGR 403WI Senior Design II**
Second capstone design course in electrical and computer engineering. Project management, professional practice, ethical and engineering economic considerations and development of written and oral presentation skills. Provides laboratory experience in prototyping, fabrication, and troubleshooting of the design project. Stresses written and oral presentation. Prerequisite: E&C-ENGR 402WI.

**E&C-ENGR 406 Parallel And Distributed Processing**
Covers the fundamental issues involved in designing and writing programs for simultaneous execution. Semaphores and monitor constructs are covered to provide a basis for critical section programming. Expansion of these concepts provide a basis for the analysis and design of control systems for multiprocessor devices and computer networks. Prerequisites: 227 or suitable systems programming course or instructor's consent.

**E&C-ENGR 408 State Variable Methods In Automatic Control**
(Also as Mechanical and Aerospace Engineering 408) State variables for continuous and discrete-time dynamic control systems; controllability and observability; optimal control of linear systems. Prerequisite: ECE 206.
E&C-ENGR 412 Principles of RF/Microwave Engineering
General aspects of TE, TM and TEM mode propagation in waveguides; circular waveguides; optical waveguides; wave propagation on dielectric backed conductors; wire antennas; equivalence principle and aperture antennas; antenna impedance and mutual coupling in arrays; array beamforming; scattering matrix representations; impedance matching; resonators; filters, couplers and power-dividers; microstriplines and striplines; r.f. propagation in wireless and radar systems; conformal mapping techniques and applications (optional). Prerequisites: E&C-ENGR 302, E&C-ENGR 380, E&C-ENGR 381, MATLAB proficiency.

E&C-ENGR 412 Principles of RF/Microwave Engineering
General aspects of TE, TM and TEM mode propagation in waveguides; circular waveguides; optical waveguides; wave propagation on dielectric backed conductors; wire antennas; equivalence principle and aperture antennas; antenna impedance and mutual coupling in arrays; array beamforming; scattering matrix representations; impedance matching; resonators; filters, couplers and power-dividers; microstriplines and striplines; r.f. propagation in wireless and radar systems; conformal mapping techniques and applications (optional). Prerequisites: E&C-ENGR 302, E&C-ENGR 380, E&C-ENGR 381, MATLAB proficiency.

E&C-ENGR 412 Principles of RF/Microwave Engineering
General aspects of TE, TM and TEM mode propagation in waveguides; circular waveguides; optical waveguides; wave propagation on dielectric backed conductors; wire antennas; equivalence principle and aperture antennas; antenna impedance and mutual coupling in arrays; array beamforming; scattering matrix representations; impedance matching; resonators; filters, couplers and power-dividers; microstriplines and striplines; r.f. propagation in wireless and radar systems; conformal mapping techniques and applications (optional). Prerequisites: E&C-ENGR 302, E&C-ENGR 380, E&C-ENGR 381, MATLAB proficiency.

E&C-ENGR 413 R.F./Microwave Techniques For Wireless Systems Laboratory
Design of probe-and stripline-fed rectangular and circular patch microstrip antennas; simulation of performance using CAD tools; modeling of R.F. propagation path loss using CAD tools for site-specific prediction applications. Prerequisites: E&C-ENGR 302, E&C-ENGR 380, E&C-ENGR 341 or E&C-ENGR 401H, MATLAB proficiency. Co-requisite: E&C-ENGR 412. Offered on demand

E&C-ENGR 413 Introduction To Fourier Optics

E&C-ENGR 414 Microwave Engineering For Wireless Systems
Microwave networks; s-, z-, y- and abcd matrices; signal flow graphs; circular waveguides; stripline & microstrip characteristics; impedance transformers; power dividers and directional couplers; microwave filters; microwave resonators; active microwave circuits. Prerequisites: ECE 302 and 380, MATLAB proficiency required. Restrictions: Open to all ECE majors; all others by permission

E&C-ENGR 414 Microwave Engineering For Wireless Systems
Microwave networks; s-, z-, y- and abcd matrices; signal flow graphs; circular waveguides; stripline & microstrip characteristics; impedance transformers; power dividers and directional couplers; microwave filters; microwave resonators; active microwave circuits. Prerequisites: ECE 302 and 380, MATLAB proficiency required. Restrictions: Open to all ECE majors; all others by permission

E&C-ENGR 414 Microwave Engineering For Wireless Systems
Microwave networks; s-, z-, y- and abcd matrices; signal flow graphs; circular waveguides; stripline & microstrip characteristics; impedance transformers; power dividers and directional couplers; microwave filters; microwave resonators; active microwave circuits. Prerequisites: ECE 302 and 380, MATLAB proficiency required. Restrictions: Open to all ECE majors; all others by permission

E&C-ENGR 415 Microwave Engineering For Wireless Systems Lab
Design & performance simulation of microwave filters and active microwave circuits; comparative analysis of impedance transformers; use of CAD tools in microwave circuit design. Prerequisites: E&C-Engr 414 Restrictions: MATLAB proficiency required.

E&C-ENGR 416 Neural And Adaptive Systems
A hands-on introduction to the theory and applications of neurocomputing. Includes classification, function approximation, supervised and unsupervised learning, time series analysis, and adaptive filtering using different feed-forward and recurrent artificial neural networks. Prerequisites: E&C-Engr 341 and Comp-Sci 394R; or an intermediate knowledge of calculus, probability, and linear algebra along with instructor's consent.
E&C-ENGR 416 Neural And Adaptive Systems
A hands-on introduction to the theory and applications of neurocomputing. Includes classification, function approximation, supervised and unsupervised learning, time series analysis, and adaptive filtering using different feed-forward and recurrent artificial neural networks. Prerequisites: E&C-Engr 341 and Comp-Sci 394R; or an intermediate knowledge of calculus, probability, and linear algebra along with instructor's consent.

E&C-ENGR 418 Introduction to Radar Systems
Radar equation; MT, Pulsed Doppler and Tracking Radars; detection of and information from radar signals; radar antennas; transmitters and receivers; radar propagation and clutter. Prerequisites: ECE 302, ECE 380 and ECE 381.

E&C-ENGR 424 Computer Design
Design of general purpose computers including arithmetic and control units, input/output, memory systems, microprogramming and introduction to parallel structures and processing. Prerequisite: E&C-ENGR 226. Offered: On demand.

E&C-ENGR 425 Computer Design Laboratory
Laboratory for E&C-ENGR 424. Design and implementation of basic computer units including fixed and floating-point adders and multipliers, ALU's, control units. Prediction of performance using various software packages. Prerequisites: E&C-ENGR 227 with E&C-ENGR 424 concurrently. Offered: On demand.

E&C-ENGR 426 Functional Languages And Architecture
Describes functional languages (e.g., LISP and FP) and the architecture to execute these languages including LISP machines and data flow computers.

E&C-ENGR 426 Microcomputer Architecture And Interfacing
Advanced microprocessor architecture and programming; interfacing and programming of peripherals. Parallel and serial communication, interrupts, direct memory access, coprocessors. Prerequisite: E&C-ENGR 226.

E&C-ENGR 426 Microcomputer Architecture And Interfacing
Advanced microprocessor architecture and programming; interfacing and programming of peripherals. Parallel and serial communication, interrupts, direct memory access, coprocessors. Prerequisite: E&C-ENGR 226.

E&C-ENGR 427 Microcomputer Laboratory
Laboratory for E&C-ENGR 426. Microprocessor hardware and software involving interfacing of peripherals to 8-bit and 16-bit microprocessor. Simple D/A conversion, music composition, and various programmable controllers. Prerequisites: E&C-ENGR 227 with E&C-ENGR 426 concurrently.

E&C-ENGR 427 Microcomputer Laboratory
Laboratory for E&C-ENGR 426. Microprocessor hardware and software involving interfacing of peripherals to 8-bit and 16-bit microprocessor. Simple D/A conversion, music composition, and various programmable controllers. Prerequisites: E&C-ENGR 227 with E&C-ENGR 426 concurrently.

E&C-ENGR 427 Microcomputer Laboratory
Laboratory for E&C-ENGR 426. Microprocessor hardware and software involving interfacing of peripherals to 8-bit and 16-bit microprocessor. Simple D/A conversion, music composition, and various programmable controllers. Prerequisites: E&C-ENGR 227 with E&C-ENGR 426 concurrently.

E&C-ENGR 428 Embedded Systems
This course examines the hardware/software aspects associated with developing microcontroller-based computer systems. The students learn about the architecture and assembly language for popular microcontrollers and how to take advantage of a variety of input/output options that include binary ports, A/D and D/A converters, communication ports, and interfacing techniques for various applications. Prerequisites: E&C-ENGR 426 and E&C-ENGR 427 Co-requisite: E&C-ENGR 429

E&C-ENGR 429 Embedded Systems Laboratory
The laboratory introduces the students to a variety of challenging design projects using microcontroller interfacing techniques to develop real world applications, such as digital thermometer and digital pressure monitoring systems. Students must produce an individual design project. Prerequisite: E&C-ENGR 426 and E&C-ENGR 427 Co-requisite: E&C-ENGR 428R

E&C-ENGR 429 Embedded Systems Laboratory
The laboratory introduces the students to a variety of challenging design projects using microcontroller interfacing techniques to develop real world applications, such as digital thermometer and digital pressure monitoring systems. Students must produce an individual design project. Prerequisite: E&C-ENGR 426 and E&C-ENGR 427 Co-requisite: E&C-ENGR 428R
E&C-ENGR 429 Embedded Systems Laboratory
The laboratory introduces the students to a variety of challenging design projects using microcontroller interfacing techniques to develop real world applications, such as digital thermometer and digital pressure monitoring systems. Students must produce an individual design project. Prerequisite: E&C-ENGR 426 and E&C-ENGR 427 Co-requisite: E&C-ENGR 428R

E&C-ENGR 430 Power-Systems Stability

E&C-ENGR 430 Microelectronic Circuits
The analysis and design of feedback amplifiers, oscillators and of microelectronic circuits that employ diodes, MOSFETs and BJTs in current mirrors, amplifiers with active loads, differential amplifiers, operational amplifiers, and CMOS Logic gates. The use of CAD (Spice) in the analysis and design of feedback amplifiers and microelectronic circuits. Prerequisite: E&C-ENGR 330 and E&C-ENGR 331. Must be taken concurrently with E&C-ENGR 431.

E&C-ENGR 433 Analog Integrated Circuit Design
Principles of the design and analysis of analog integrated circuits. Study of MOS device physics and second order effects, device fabrication and layout, noise, single-stage and differential amplifiers, current mirrors, reference circuits, opamps and frequency compensation. Introduction to CAS circuit design and Cadence design tools. Prerequisites: ECE 276

E&C-ENGR 435 Design And Simulation Of Vlsi Circuits
Design of NMOS and CMOS integrated circuits with emphasis on digital applications. Device models are developed for circuit simulation. Prerequisite: E&C-ENGR 330 or instructor's consent.

E&C-ENGR 435 Power Systems Relaying

E&C-ENGR 436 Power Electronics I
Power electronic device characteristics, important circuit and component concepts, phase controlled rectifiers, line communicated inverters and AC phase control. Includes laboratory projects. Prerequisite: E&C-ENGR 430.

E&C-ENGR 436 Power Electronics I
Power electronic device characteristics, important circuit and component concepts, phase controlled rectifiers, line communicated inverters and AC phase control. Includes laboratory projects. Prerequisite: E&C-ENGR 430.

E&C-ENGR 436 Power Electronics I
Power electronic device characteristics, important circuit and component concepts, phase controlled rectifiers, line communicated inverters and AC phase control. Includes laboratory projects. Prerequisite: E&C-ENGR 430.

E&C-ENGR 438 Robotic Control And Intelligence
Introduces robotics; robot system characteristics; robot motive power systems; geometric structure of robots; sensors and feedback; control applications and algorithms; data acquisition and output actuation functions; robots and Artificial Intelligence; microprocessor applications in robotics. Prerequisites: E&C-ENGR 358 and E&C-ENGR 226 or E&C-ENGR 426. Offered: on demand.

E&C-ENGR 450 Introduction To The Modeling And Management Of Uncertainty
Theoretical and practical issues in the modeling and management of uncertainty. Topics include probabilistic uncertainty, belief theory and fuzzy set theory. Applications to computer vision, pattern recognition and expert systems.

E&C-ENGR 458 Automatic Control
Techniques for feedback control system modeling and design. Includes applications of Bode plots, root locus, Nyquist methods, state-variables, compensator design, and computational aids. Prerequisites: E&C-ENGR 341 and E&C-ENGR 380

E&C-ENGR 460 Electromechanical Conversion I
Magnetic circuitry in general and in machinery; DC machine theory, operation, applications; transformer circuits, synchronous machine theory, operation applications; basic principles of energy conversion; introduction to power electronics; and basic principles of power transmission and control are covered. Prerequisite: E&C-ENGR 276 or E&C-ENGR 302.

E&C-ENGR 461 Electromechanical Conversion II
Application of fundamentals and concepts of power systems to practical power plan and industrial applications. Identification of the significant internal components of power system equipment. Single and Three Phase Circuits, DC and AC Generators/Alternators, Transformers, DC and AC Motors, DC and AC transmission, and System Electrical Protection. Prerequisite: E&C-ENGR 460.

E&C-ENGR 462 Symmetrical Components Analysis Of Power Systems
Short circuit analysis using symmetrical components. Simultaneous faults and open conductors. Prerequisite: E&C-ENGR 466
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Short circuit analysis using symmetrical components. Simultaneous faults and open conductors. Prerequisite: E&C-ENGR 466

E&C-ENGR 462 Symmetrical Components Analysis Of Power Systems
Short circuit analysis using symmetrical components. Simultaneous faults and open conductors. Prerequisite: E&C-ENGR 466

E&C-ENGR 463 Advanced Sustainable Energy Systems Engineering
Sustainable Energy Systems Engineering focuses on understanding the theory and application of emerging energy technologies, including solar, wind, biomass, oceanic, geothermal, hydropower, fuel cell (hydrogen), nuclear, and other more exotic energy sources. A premise of the course is that a sustainable energy technology must both be technically feasible and economically viable. Renewable energy sources will be highlighted with a focus on projections for a sustainable energy future. Graduate students will be assigned an additional project to work. Prerequisite: ECE 466

E&C-ENGR 464 Electric Transportation And Industrial Drives
Electric vehicle propulsion and industrial drives; review of DC and AC machine principles, traction motor requirements and performance, DC and AC industrial drives, heating effects. Prerequisite: E&C-ENGR 460. Offered: On demand

E&C-ENGR 466 Power Systems I
Power System fundamentals; Methods of power system analysis and design; Modeling of power systems components such as transmission lines, transformers and generators; Analysis of steady state operation of power system and unbalanced conditions. Prerequisites: E&C-ENGR 376 and 341R

E&C-ENGR 466 Power Systems I
Power System fundamentals; Methods of power system analysis and design; Modeling of power systems components such as transmission lines, transformers and generators; Analysis of steady state operation of power system and unbalanced conditions. Prerequisites: E&C-ENGR 376 and 341R

E&C-ENGR 466 Power Systems I
Power System fundamentals; Methods of power system analysis and design; Modeling of power systems components such as transmission lines, transformers and generators; Analysis of steady state operation of power system and unbalanced conditions. Prerequisites: E&C-ENGR 376 and 341R

E&C-ENGR 467 Power Systems II

E&C-ENGR 467 Power Systems II

E&C-ENGR 468 Electric Power Distribution Systems
Operation and design of utility and industrial distribution systems including distribution system planning; load characteristics; application of distribution transformers; design of subtransmission lines, distribution substations, primary systems, secondary systems; application of capacitors; voltage regulation and reliability. Prerequisite: E&C-ENGR 460. Offered: On Demand.

E&C-ENGR 468 Electric Power Distribution Systems
Operation and design of utility and industrial distribution systems including distribution system planning; load characteristics; application of distribution transformers; design of subtransmission lines, distribution substations, primary systems, secondary systems; application of capacitors; voltage regulation and reliability. Prerequisite: E&C-ENGR 460. Offered: On Demand.

E&C-ENGR 469 Computer Applications To Power Systems
Load flow, fault, network reduction, and transient stability studies on digital and analog computers. Prerequisites: E&C-ENGR 460K. Offered: On demand.

E&C-ENGR 470 Reliability Of Electric Power Systems
Principles of reliability as applied to Power Systems with an overview of current methods to measure reliability of Power Systems are introduced. Analytical and Monte Carlo models for component state and system state duration, with contingency analysis and linear programming for optimal power flow are also covered. Restoration times and cost assessment after component or system failures due to internal or external problems provide focus to practical operating principles. Prerequisite: E&C-ENGR 466, COMP-SCI 394R or equivalent.
E&C-ENGR 470 Reliability Of Electric Power Systems
Principles of reliability as applied to Power Systems with an overview of current methods to measure reliability of Power Systems are introduced. Analytical and Monte Carlo models for component state and system state duration, with contingency analysis and linear programming for optimal power flow are also covered. Restoration times and cost assessment after component or system failures due to internal or external problems provide focus to practical operating principles. Prerequisite: E&C-ENGR 466, COMP-SCI 394R or equivalent.

E&C-ENGR 470 Reliability Of Electric Power Systems
Principles of reliability as applied to Power Systems with an overview of current methods to measure reliability of Power Systems are introduced. Analytical and Monte Carlo models for component state and system state duration, with contingency analysis and linear programming for optimal power flow are also covered. Restoration times and cost assessment after component or system failures due to internal or external problems provide focus to practical operating principles. Prerequisite: E&C-ENGR 466, COMP-SCI 394R or equivalent.

E&C-ENGR 472 Power Generation Systems
Multi discipline survey of power generation systems and subsystems, including coal-fired steam, co-generation and combined cycle, and combustion turbines. With a goal of reviewing all the major subsystems, this course exposes the electrical engineer to all the mechanical, thermodynamic, and chemical processes of power generation systems. Prerequisite: ECE 466

E&C-ENGR 472 Power Generation Systems
Multi discipline survey of power generation systems and subsystems, including coal-fired steam, co-generation and combined cycle, and combustion turbines. With a goal of reviewing all the major subsystems, this course exposes the electrical engineer to all the mechanical, thermodynamic, and chemical processes of power generation systems. Prerequisite: ECE 466

E&C-ENGR 474 Introduction To Communication Systems
Introduction to principles and fundamentals of communication systems. Signal representation and analysis, Fourier transform and applications, probability and random variables, analog and digital modulation techniques. Prerequisites: E&C-ENGR 474, E&C-ENGR 380 and Comp-Sci 394R.

E&C-ENGR 474 Introduction To Communication Systems
Introduction to principles and fundamentals of communication systems. Signal representation and analysis, Fourier transform and applications, probability and random variables, analog and digital modulation techniques. Prerequisites: E&C-ENGR 474, E&C-ENGR 380 and Comp-Sci 394R.

E&C-ENGR 476 Introduction To Wireless Communication Systems
Principles of wireless communication analysis and design. Digital communication basics, cellular radio, wireless PCS communications, multiple access techniques, channel coding and equalization, and standards of digital cellular/PCS systems. Prerequisites: E&C-ENGR 474.

E&C-ENGR 476 Introduction To Wireless Communication Systems
Principles of wireless communication analysis and design. Digital communication basics, cellular radio, wireless PCS communications, multiple access techniques, channel coding and equalization, and standards of digital cellular/PCS systems. Prerequisites: E&C-ENGR 474.

E&C-ENGR 477 Introduction To Wireless Networking
Principles of the design and analysis of wireless networks. Study of medium access control, administration routing and adaptation to the complexities of the wireless environment. Investigation of networking issues in the IEEE 802.11 family of standards, IEEE 802.15 (Bluetooth), Long Term Evolution, cellular, satellite, ad hoc, and sensor networks. Prerequisites: CS 394R.

E&C-ENGR 478 Modulation And Transmission Of Signals

E&C-ENGR 480 Digital Signal Processing
Concepts, analytic tools, design techniques used in computer processing of signals: signal representation, sampling, discrete-time system analysis, recursive/non-recursive filters, design/implementation of digital filters. Prerequisites: E&C-ENGR 380

E&C-ENGR 480 Digital Signal Processing
Concepts, analytic tools, design techniques used in computer processing of signals: signal representation, sampling, discrete-time system analysis, recursive/non-recursive filters, design/implementation of digital filters. Prerequisites: E&C-ENGR 380
E&C-ENGR 480 High Frequency Transmission And Radiation

E&C-ENGR 481 Digital Signal Processing Laboratory

E&C-ENGR 482 Analog Signal Processing
Fundamentals of network synthesis with emphasis on the design of analog filters; the approximation problem, sensitivity, LC and RC passive filters, RC active filters, and switched capacitor filters. Prerequisites: E&C-ENGR 330 and E&C-ENGR 380. Offered: on demand.

E&C-ENGR 483 Analog Signal Processing Laboratory
Laboratory for E&C-ENGR 482. Analog filters based upon active-RC circuits. Integrated circuit universal active filters and switched capacitor active filters. Prerequisites: E&C-ENGR 331 with E&C-ENGR 482 concurrently. Offered: On demand.

E&C-ENGR 484 Digital Image Processing
Fundamentals of digital image processing hardware and software, including digital image acquisition, display, compression, transforms and segmentation. Prerequisites: E&C-ENGR 380 and experience in a high-level programming language.

E&C-ENGR 484 Digital Image Processing
Fundamentals of digital image processing hardware and software, including digital image acquisition, display, compression, transforms and segmentation. Prerequisites: E&C-ENGR 380 and experience in a high-level programming language.

E&C-ENGR 486 Pattern Recognition
Pattern recognition techniques of applications such as automatic recognition for speech, visual inspection systems, clinical medicine, automatic photographic recognition systems and advanced automation systems. Prerequisite: Senior standing

E&C-ENGR 486 Pattern Recognition
Pattern recognition techniques of applications such as automatic recognition for speech, visual inspection systems, clinical medicine, automatic photographic recognition systems and advanced automation systems. Prerequisite: Senior standing

E&C-ENGR 488 Introduction To Digital Image Processing
Fundamentals of digital image processing hardware and software, including digital image acquisition, image display, image enhancement and compression. Prerequisites: Senior standing; experience in high-level language. Offered: On demand

E&C-ENGR 490 Digital Computer Applications In Engineering

E&C-ENGR 491 Internship
Students may participate in structured internships under the joint supervision of an employer and a faculty member. The student must carry out significant professional responsibilities that also have academic merit. The number of credit hours is based on the quality of the academic experience. Available for credit/nocredit only and students must be in good standing with at least 18 credit hours of ECE courses counting towards the degree. Registration by consent number only: petition forms for E&C-ENGR 491 internships are available in the office of CSEE Division and on the web. Prerequisite: At least 18 hours of E&C-ENGR courses toward the degree.

E&C-ENGR 492WI Senior Design I
First capstone design course in electrical engineering. Engineering project planning and development, professional practice, ethics and engineering economy. Stresses written an oral presentation. Prerequisite: Must be taken within three semesters of graduation; ECE 493 and ENGL 304WI taken concurrently. Offered: Fall

E&C-ENGR 496 Special Topics
Selected Topics in specific areas of electrical or computer engineering. May be repeated for credit when the topic varies. Prerequisite: At least 18 hours of ECE courses toward the degree. Offered: On demand
E&C-ENGR 497 Directed Readings
Readings in an area selected by an undergraduate student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Consent of instructor Offered: On demand

E&C-ENGR 498 Research Seminar
Undergraduate research based on intensive readings from the current research literature under the direction of a faculty member. Arrangements must be made prior to registration. Prerequisite: Consent of instructor Offered: On demand

E&C-ENGR 499 Undergraduate Research
Completion of a project, including a final written report, under the direction of a faculty member. A prospectus must be accepted prior to registration. Prerequisite: Consent of instructor Offered: On demand

Information Technology (INFO-TEC)
INFO-TEC 222 Multimedia Production And Concepts
Multimedia production and concepts will give an overview of multimedia technology and communication theory needed to deliver information and to produce interactive presentations for the web, for CD-ROM, and for in-person presentations and demos. The course offers exposure to software, hardware, other multimedia technologies, authoring and copyright matters. Prerequisite(s): COM-SCI 101 Offered: Winter Semester

INFO-TEC 290 Special Topics
Selected topics in specific subject areas of Information Technology which are not part of the regular offerings. Prerequisite: Approval of instructor. Offered: Winter

INFO-TEC 321 Introduction To Computing Resources Administration
This introductory course is designed to give an overview of a wide variety of technical, interpersonal, documentation, and managerial skills needed to become an effective systems administrator. Prerequisite: COMP-SCI 201

INFO-TEC 321 Introduction To Computing Resources Administration
This introductory course is designed to give an overview of a wide variety of technical, interpersonal, documentation, and managerial skills needed to become an effective systems administrator. Prerequisite: COMP-SCI 201

INFO-TEC 350 Object-Oriented Software Development
Application of object oriented programming languages as a means to implement object oriented designs. Polymorphism through inheritance and interfaces, design methods such as Responsibility Driven Design and such reusable design techniques as abstract classes and frameworks. Event-driven programming and the Java Swing classes for constructing interactive Graphical User Interfaces (GUIs), the basics of the Unified Modeling (UML) and elementary design patterns. Prerequisites: COMP-SCI 201R and COMP-SCI 352 or COMP-SCI 303.

INFO-TEC 350 Object-Oriented Software Development
Application of object oriented programming languages as a means to implement object oriented designs. Polymorphism through inheritance and interfaces, design methods such as Responsibility Driven Design and such reusable design techniques as abstract classes and frameworks. Event-driven programming and the Java Swing classes for constructing interactive Graphical User Interfaces (GUIs), the basics of the Unified Modeling (UML) and elementary design patterns. Prerequisites: COMP-SCI 201R and COMP-SCI 352 or COMP-SCI 303.

INFO-TEC 350 Object-Oriented Software Development
Application of object oriented programming languages as a means to implement object oriented designs. Polymorphism through inheritance and interfaces, design methods such as Responsibility Driven Design and such reusable design techniques as abstract classes and frameworks. Event-driven programming and the Java Swing classes for constructing interactive Graphical User Interfaces (GUIs), the basics of the Unified Modeling (UML) and elementary design patterns. Prerequisites: COMP-SCI 201R and COMP-SCI 352 or COMP-SCI 303.

INFO-TEC 426 Practical Network Security
This course examines common threats to computer network security and discusses various techniques to mitigate those threats. The course material is supplemented with lab assignments that implement network security tools and use them to build a small secure network. It discusses information hiding, traffic monitoring and control, intrusion detection, and security policy. Note: NOTE FOR GRADUATE CREDIT. Prerequisites: CS 420/Consent of instructor.

INFO-TEC 427 Network Analysis
This course focuses on routing in an autonomous system network using Cisco Systems equipment. It will include a review of the fundamental operations needed in AS routing and will then, through lecture and lab assignments, implement various network
configurations using Cisco equipment. The concepts addressed will include router, switch and protocol implementations for Cisco Discovery Protocol, Spanning Tree Protocol, VLAN's, VLAN Trunking Protocol and standard Cisco network routing protocols, among others. Prerequisites: IT 321 and CS 420.

INFO-TEC 490 Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490A Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490C Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490GP Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490IT Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490J Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490MI Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490NA Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490NS Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490SD Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 490WD Special Topics
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 491 Internship
Students may participate in structured internships under the joint supervision of an employer and a faculty member. The student must carry out significant professional responsibilities that also have academic merit. The number of credit hours is based on the quality of the academic experience. Available for credit/nocredit only, and students must be in good standing with a least 18 credit hours of CS/IT counting towards the degree. Registration by consent number only: petition forms for CS/IT 491 Internships are available in the CSEE Division Office. Prerequisite: At least 18 hours of CS/IT that counts towards the B.I.T. degree.

Mechanical Engineering (MEC-ENGR)
MEC-ENGR 111 Essential Engineering
Introduction to the practice and history of engineering including its impact on human history, product design/development and its relationship to the ecosystem, professionalism and ethics, the engineering approach to solving real-world problems, engineering communications and calculations, engineering teamwork and case studies. (Same as CIV-ENGR 111).

MEC-ENGR 130 Engineering Graphics
Introduction to Engineering Graphics with the use of the Computer Aided Design tools AutoCAD and SolidWorks. Introduction to 2D design with AutoCAD includes: basic features, layer control, geometric constructions, orthographic projections, dimensioning and notes, tolerancing, section views, and working drawings. Introduction to 3D design with SolidWorks includes: part modeling, revolved features, sweeps, lofts, assembly modeling and engineering drawings. No previous 2D or 3D CAD experience is necessary to take this class. Semester Offered: Fall/Winter

MEC-ENGR 130 Engineering Graphics
Introduction to Engineering Graphics with the use of the Computer Aided Design tools AutoCAD and SolidWorks. Introduction to 2D design with AutoCAD includes: basic features, layer control, geometric constructions, orthographic projections,
dimensioning and notes, tolerancing, section views, and working drawings. Introduction to 3D design with SolidWorks includes: part modeling, revolved features, sweeps, lofts, assembly modeling and engineering drawings. No previous 2D or 3D CAD experience is necessary to take this class. Semester Offered: Fall/Winter

MEC-ENGR 130 Engineering Graphics Lab
Supplemental lab instruction and assistance for MEC-ENGR 130.

MEC-ENGR 131 Engineering Graphics-3D design
Introduction to Engineering Graphics using the 3D Computer Aided Design tool SolidWorks. Introduction to 3D design with SolidWorks includes: part modeling, revolved features, sweeps, lofts, assembly modeling, and engineering drawings. Some previous 2D AutoCAD experience is required to take this class. NOTE: This class starts halfway through the semester by joining in with MEC-ENGR 130 when they finish AutoCAD and begin SolidWorks. Prerequisite: 2D AutoCAD experience.

MEC-ENGR 131L Engineering Graphics 3D Design Lab
Supplemental lab instruction and assistance for MEC-ENGR 131

MEC-ENGR 211 The Engineering Enterprise
The engineering enterprise course covers four topics essential for engineering students with new venture creation interests: creating economic value, leadership, finance, and marketing. The primary objective of this course is to motivate the student to think as a blend of an engineer and a businessperson. (Same as CIV-ENGR 211). Prerequisite/corequisite: MEC-ENGR 111

MEC-ENGR 219 Computer Programming For Engineers
Analysis and synthesis of structured computer algorithms for solving engineering problems using high level programming tools such as Excel, Matlab, Fortran and/or C++. (Same as CIV-ENGR 219) Prerequisite: MATH 210

MEC-ENGR 220 Electric Circuits
Introduction to electric circuits for civil and mechanical engineering students. Prerequisites: MEC-ENGR 219, PHYSICS 250 Pre or Corequisite MATH 345 or ME 272 Offered: Winter

MEC-ENGR 220 Electric Circuits
Introduction to electric circuits for civil and mechanical engineering students. Prerequisites: MEC-ENGR 219, PHYSICS 250 Pre or Corequisite MATH 345 or ME 272 Offered: Winter

MEC-ENGR 270 Engineering Analysis I
This is an applied course with emphasis on physics and engineering applications. Topics include engineering applications using conics, parametric equations, polar coordinates, vectors, solid analytic geometry, vector valued functions, multi-variable functions, partial derivatives (including applications), multiple integration, vector calculus including Green's Theorem, Curl and Divergence, line and surface integrals and Stoke's Theorem. Prerequisites: Math 220. Restrictions: Civil & Mechanical Engineering Students Only

MEC-ENGR 272 Engineering Analysis II
An applied course using differential equations in solutions to engineering problems. Topics include applications in first-order differential equations, linear higher-order equations, Laplace transform, Series solutions of linear ODEs (Taylor, Power, and Fourier), Numerical solutions, introduction to systems of differential equations. Prerequisites: ME 270 or Math 250. Restrictions: Civil & Mechanical Engineering Students Only

MEC-ENGR 285 Engineering Dynamics
Basic fundamentals of particle and rigid body dynamics; energy and momentum methods; computer use. Prerequisite: CIV-ENGR 275.

MEC-ENGR 299 Engineering Thermodynamics
Fluid properties, work and heat, first law, second law, entropy, applications to vapor and ideal gas processes. Prerequisites: PHYSICS 240 and MATH 220.

MEC-ENGR 301 Fundamental Topics In Mechanical Engineering
Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.

MEC-ENGR 301 Fundamental Topics In Mechanical Engineering
Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.
MEC-ENGR 301E Topics In Mechanical Engineering

MEC-ENGR 306 Computer-Aided Engineering
Principles, analysis and application of numerical methods for the solution of engineering problems. Computer implementation. Prerequisites: CE 319, Math 345, or ME 272

MEC-ENGR 306 Computer-Aided Engineering
Principles, analysis and application of numerical methods for the solution of engineering problems. Computer implementation. Prerequisites: CE 319, Math 345, or ME 272

MEC-ENGR 311 The Technical Entrepreneur
The guiding principal for the course is that entrepreneurs are innovators and operate in an uncertain and risky environment. The course looks at the entrepreneurial mindset and the process of new product line launch. (Same as CIV-ENGR 311). Prerequisite: MEC-ENGR 211

MEC-ENGR 319 Engineering Computation And Statistics
Statistical distribution functions and application to engineering problems. Limited treatment of curve-fitting and time-series analysis. Introduction to factorial design. (Same as CE 319) Prerequisite: MEC-ENGR 219 and MATH 220

MEC-ENGR 324 Engineering Materials

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MEC-ENGR 351 Fluid Mechanics
Concepts of the statics and dynamics of fluids, with emphasis on principles of continuity, momentum and energy. Boundary layers, dimensional analysis and drag are covered briefly. Thorough treatment of pipe flow. (Same as CIV-ENGR 351.) Prerequisites: MEC-ENGR 285, MATH 345

MEC-ENGR 352WI Instrumentation & Measurements Lab I
Static and dynamic errors; experiment design; instrumentation selection and calibration; measurement of voltage, resistance, amperage, duration, frequency, displacement, velocity, acceleration, strain, force and torque. Prerequisites: MEC-ENGR 285, CIV-ENGR 276, MEC-ENGR 220, Math 345 or ME 272, WEPT passed, Machine Shop Safety

MEC-ENGR 352WI Instrumentation & Measurements Lab I
Static and dynamic errors; experiment design; instrumentation selection and calibration; measurement of voltage, resistance, amperage, duration, frequency, displacement, velocity, acceleration, strain, force and torque. Prerequisites: MEC-ENGR 285, CIV-ENGR 276, MEC-ENGR 220, Math 345 or ME 272, WEPT passed, Machine Shop Safety

MEC-ENGR 352WI Instrumentation & Measurements Lab I
Static and dynamic errors; experiment design; instrumentation selection and calibration; measurement of voltage, resistance, amperage, duration, frequency, displacement, velocity, acceleration, strain, force and torque. Prerequisites: MEC-ENGR 285, CIV-ENGR 276, MEC-ENGR 220, Math 345 or ME 272, WEPT passed, Machine Shop Safety

MEC-ENGR 360 Thermal System Design
Gas and vapor mixtures, cycles, availability, imperfect gases, thermodynamic relations, combustion, chemical equilibrium, power systems and design projects. Effects of design choices on the earth and living systems. Prerequisites: MEC-ENGR 299, MATH 250 or ME 270, Pre or Co-requisite: CE 351

MEC-ENGR 360 Thermal System Design
Gas and vapor mixtures, cycles, availability, imperfect gases, thermodynamic relations, combustion, chemical equilibrium, power
systems and design projects. Effects of design choices on the earth and living systems. Prerequisites: MEC-ENGR 299, MATH 250 or ME 270, Pre or Co-requisite: CE 351

**MEC-ENGR 362** Instrumentation & Measurements Lab II
Continuation of 352 with emphasis on instruments to measure temperature, pressure, fluid flow, fluid velocity, sound, spectral content and emissions. Prerequisites: MEC-ENGR 351 and MEC-ENGR 352. Corequisite: MEC-ENGR 399.

**MEC-ENGR 380** Manufacturing Methods
Introduction to manufacturing processes with emphasis on those aspects most relevant to methods, problems in force analysis, and practicum and experimentation in machine tool applications. Prerequisites: MEC-ENGR 324.

**MEC-ENGR 385** System Dynamics
Kinematics of mechanical systems. Introduction to the modeling and analysis of dynamic mechanical systems. Computer analysis. Prerequisites: MEC-ENGR 285, MATH 345 or ME 272

**MEC-ENGR 385** System Dynamics
Kinematics of mechanical systems. Introduction to the modeling and analysis of dynamic mechanical systems. Computer analysis. Prerequisites: MEC-ENGR 285, MATH 345 or ME 272

**MEC-ENGR 390** Engineering Coop/Internship
Students may participate in structured Engineering Coop/ Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211

**MEC-ENGR 399** Heat And Mass Transfer
Fundamentals of conduction, convection, and radiation heat transfer. Use of nondimensional parameters. Theory of heat exchangers. Mass transfer. Prerequisites: ME 360, Math 345 or ME 272

**MEC-ENGR 399** Heat And Mass Transfer
Fundamentals of conduction, convection, and radiation heat transfer. Use of nondimensional parameters. Theory of heat exchangers. Mass transfer. Prerequisites: ME 360, Math 345 or ME 272

**MEC-ENGR 400** Problems
Special design, experimental and analytical problems in mechanical engineering.

**MEC-ENGR 400CB** Problems
Special design, experimental and analytical problems in mechanical engineering.

**MEC-ENGR 400DQ** Problems
Special design, experimental and analytical problems in mechanical engineering.

**MEC-ENGR 400EA** Problems
Special design, experimental and analytical problems in mechanical engineering.

**MEC-ENGR 401** Topics In Mechanical Engineering
Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.

**MEC-ENGR 401BI** Topics In Mechanical Engineering

**MEC-ENGR 401BN** Topics In Mechanical Engineering

**MEC-ENGR 401E** Topics In Mechanical Engineering
MEC-ENGR 401FA Topics In Mechanical Engineering
MEC-ENGR 401FE Topics in Mechanical Engineering
MEC-ENGR 401H Topics In Mechanical Engineering
MEC-ENGR 401M Topics In Mechanical Engineering
MEC-ENGR 401MS Topics in Mechanical Engineering
MEC-ENGR 401NE Topics in Mechanical Engineering
MEC-ENGR 401OE Topics In Mechanical Engineering
MEC-ENGR 401P Topics In Mechanical Engineering
MEC-ENGR 401R Topics In Mechanical Engineering
MEC-ENGR 401RE Topics In Mechanical Engineering
MEC-ENGR 401SA Topics In Mechanical Engineering
MEC-ENGR 401SB Topics in Mechanical Engineering
MEC-ENGR 401TS Topics in Mechanical Engineering
MEC-ENGR 401V Topics In Mechanical Engineering
MEC-ENGR 401X Topics in Mechanical Engineering
Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.

MEC-ENGR 409 Fundamentals of Engineering Review
This course consists of a series of lectures given by different professors and is intended as a review class for all the subjects included in the Fundamentals of Engineering exam. Classes specifically focus on the review of equations and formulas included in the reference handbook published by NCEES. Lectures given using PowerPoint presentations will be posted on blackboard each week. All lectures are NOT given using PowerPoint presentations and it is the students' responsibility to obtain the notes of those classes in case they were not able to attend the class.

MEC-ENGR 411 Introduction to Biomechanics
This course is to provide students with an introduction to the engineering principles of biomechanics. Following a general introduction to anatomical terminology, students will be exposed to three primary sub-disciplines of biomechanics including
kinetics and kinematics of human movement, muscle mechanics, and biomaterials. Students will become familiar with measurement techniques and current research being done within each of these units through lectures and in-class discussions and presentations of relevant journal articles. A final semester project, culminating in a NIH-style research proposal, will be developed throughout the semester in one of the three units presented.

MEC-ENGR 412 Biodynamics
Introduction to musculoskeletal biomechanics including: computational biomechanics, movement simulation, motor control and musculoskeletal tissues. Prerequisite: ME 411

MEC-ENGR 413 Bioinstrumentation of Human Motion
The purpose of this course is to provide an opportunity for students to gain a hands-on, in-depth understanding of the kinematic, and electromyographic measurement and analysis techniques used to quantify biomechanics of human motion. Students will also be introduced to neurological measurement techniques used to quantify brain activity related to the biomechanical components of human motion. To prepare for these topics, a review of data sampling and signal procession theory will be provided. Prerequisites: ME 411

MEC-ENGR 414 Material Science For Advanced Applications
Study of the physical and mechanical metallurgy of alloy systems of interest in engineering applications. Prerequisite: MEC-ENGR 324.

MEC-ENGR 415 Feedback Control Systems
Introduction to feedback control theory for linear dynamic systems. Topics include root locus analysis, frequency response analysis, and controller design. Prerequisite: MEC-ENGR 385

MEC-ENGR 420 Human Powered Vehicle Design Lab
Introduction to the science of human powered vehicles (HPV) providing the background necessary for the design of such vehicles. Students will learn and utilize engineering design practices and apply them toward the creation of an aerodynamic, highly engineered land based HPV. Prerequisite: Consent of Instructor

MEC-ENGR 424 Non-Metallic Engineering Materials
Structures, properties and applications of ceramics, glasses, cermets, polymers and composite materials. Prerequisite: MEC-ENGR 324.

MEC-ENGR 431 Experimental Methods In Fluid Flow & Heat Transfer
Laboratory experiments involving fundamental mechanisms and phenomena associated with fluid flow and heat transfer. Current experimental methods and techniques employed. Prerequisites: MEC-ENGR 362 and MEC-ENGR 399.

MEC-ENGR 440 Heating And Air Conditioning
General principles of thermodynamics, heat transfer, and fluid dynamics are used to calculate building loads, size equipment and ducts, and evaluate system performance in maximizing human comfort. Consideration of indoor air quality and human health. Prerequisites: MEC-ENGR 360 and MEC-ENGR 399

MEC-ENGR 441 Intermediate Fluid Mechanics
Topics in potential and viscous flow theory, and computational fluid dynamics. Prerequisite: MEC-ENGR 351.

MEC-ENGR 444 Composite Materials
A survey of composite materials used in engineering, emphasizing fiber-reinforced composites as well as laminate and particulate composites. Prerequisite: MEC-ENGR 324.

MEC-ENGR 447 Contracts And Law For Engineers
Law of contracts, including types, construction, interpretation, performance, and termination. Construction and Engineering service contracts: Proposals, general and financial conditions, specifications and drawings. Corporate and professional and personal liability, insurance and bonds, property, evidence, arbitration and mediation. Offered: Fall

MEC-ENGR 449 Environmental Compliance, Auditing & Permitting
Statues, regulations and permitting for air hazardous wastes and storage tanks. Asbestos, radon, EMF, and emerging areas of regulatory concern. Siting issues. Criminal and civil enforcement. Crosslisted as CIV-ENGR 449 Prerequisite: Junior standing within the degree program Offered: Winter

MEC-ENGR 451 Power Plant Design
Preliminary component and system design. Optimum design of boilers, steam turbines, condensers and cooling towers and their integration into a system to minimize production costs and impact on the environment. Prerequisites: MEC-ENGR 360 and
MEC-ENGR 399.  

MEC-ENGR 452 Advanced Mechanics Of Materials  
Analysis of more complicated problems in stresses and strains. Prerequisite: CIV-ENGR 276.  

MEC-ENGR 453 Experimental Stress Analysis  
Photoelastic, electric strain gage, brittle lacquer methods of experimental stress analysis for static loads. Strain gage work includes strain rosettes. Prerequisite: CIV-ENGR 276.  

MEC-ENGR 454 Power Generation Systems  
Fundamentals of the power industry in a format suitable for all engineering disciplines. Survey of electric power systems, including fossil and nuclear steam cycles, combustion turbines, combines cycles, and renewable such as solar and wind. Introduction to major machinery components, systems, controls, and an overview of fuels, emissions, and emission control technologies. Offered: Winter  

MEC-ENGR 455 Digital Control Of Mechanical Systems  
Introduction to digital control systems. Topics include Z-transforms, sampling, stability analysis, and digital controller design. Prerequisites: MEC-ENGR 415 and MATH 345.  

MEC-ENGR 456WI Mechanical Component Design  
Introduction to mechanical engineering design and its impact on human history, principles of design with ductile and brittle materials for static and dynamic loading, classical and reliability-based factors of safety, fracture mechanics in design, application to the design of selected machine components. Prerequisites: ME 380, ME 385, ME 130, ME 399, WEPT passed  

MEC-ENGR 456WI Mechanical Component Design  
Introduction to mechanical engineering design and its impact on human history, principles of design with ductile and brittle materials for static and dynamic loading, classical and reliability-based factors of safety, fracture mechanics in design, application to the design of selected machine components. Prerequisites: ME 380, ME 385, ME 130, ME 399, WEPT passed  

MEC-ENGR 457 Mechatronic System Design  
Basic principles of mechatronic applications for mechanical engineers through course instruction and "hands-on" activities and projects. Prerequisites: ME 362 and ME 415  

MEC-ENGR 458 Modern Control Systems  
Controller design for multiple-input/multiple-output systems; controllability and observability; stochastic control problems; regulators and tracking controllers; observers. Prerequisite: MEC-ENGR 415.  

MEC-ENGR 460 Electromechanical Conversion  
Basic principles of energy conversion; magnetic circuitry in general and in machinery; DC machine theory, transformer operation and circuit application; synchronous machine theory electric system operation; introduction to power electronic principles and practices. (Cross-listed with ME 5560). Prerequisite: ME 220  

MEC-ENGR 461 Electromechanical Conversion II  
Application of fundamental and concepts of power systems to practical power plant and industrial applications. Identification of the significant internal components of power system equipment: Single and Three Phase Circuits, DC and AC Generators/Alternators, Transformers,DC and AC Motors,DC and AC Transmission,and System Electrical Protection. Prerequisite: MEC-ENGR 460  

MEC-ENGR 466 Applied Optimization And Decision Modeling  
Introduction to mathematical programming techniques and applications. Linear and integer programming, transporation models, multiple objective and goal programming. Prerequisite: MEC-ENGR 306  

MEC-ENGR 470 Experimental Design & Analysis  
Presentation of concepts and methods of statistical analysis and the design of experiments. Concepts, techniques, interpretation, and use of results are stressed. Focus is on experimental strategy and objectives, and the application of the methods discussed, rather than the mechanics of derivation. Major sections include: a review of hypothesis testing and basic analysis of variance techniques; single factor experiments including 2k and 3k design, confounding, and Taguchi philosophy; nested and split plot designs; analysis of covariance and an introduction to response surface methods. (Cross-listed with ME 5570)  

MEC-ENGR 476 Machine Tool Design  
Methodology of machine tool design. Dynamic modeling, analysis, synthesis, and simulation of machine tools to meet functional
requirements and design constraints. Prerequisites: MEC-ENGR 285 and MEC-ENGR 306.

MEC-ENGR 483 Manufacturing Automation
This course covers fundamentals underlying contemporary manufacturing automation. The following two aspects of manufacturing automation will be emphasized: (1) computer based systems for automating and controlling manufacturing processes such as numerically controlled machining and material handling robots; and (2) use of software systems in facilitating information exchange between different components of manufacturing decision support systems. The course will be taught using a project-based learning approach. Prerequisites: MEC-ENGR 319 and MEC-ENGR 380

MEC-ENGR 484 Vibration Analysis
Vibration theory with application to mechanical systems. Prerequisites: MEC-ENGR 385

MEC-ENGR 486 Applied Finite Element Analysis
The study of advanced simulation techniques for the solution to engineering problems. The use of Finite Element Method toward solving mechanical, structural, vibration and potential flow problems will be explored. The use of current commercial simulation tools will be used extensively. Prerequisites: ME 306, ME 324, ME 385, ME 399.

MEC-ENGR 491 Internship
For International students who must register to cover off-campus employment which is approved as related to their degree by their departmental advisor and ISAO.

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For International students who must register to cover off-campus employment which is approved as related to their degree by their departmental advisor and ISAO.

MEC-ENGR 495 Vehicle Dynamics
Analysis and prediction of the dynamic behavior of ground vehicles utilizing computer simulation. Mechanics of various suspension systems, tire-roadway interaction, vehicle aerodynamics, vehicle handling and steering characteristics. Special topics including non-holonomic constraint formulation and stability of motion. Prerequisite: MEC-ENGR 385.

MEC-ENGR 496WI Mechanical Design Synthesis
Modern design theories and methodologies, with emphasis on the initial stages of the design process. Effect of design choices on the earth and living systems. Principles of embodiment design and life-cycle considerations. A comprehensive group design project is required. The course satisfies the Writing Intensive requirement. Prerequisite: MEC-ENGR 456WI, WEPT passed.

MEC-ENGR 499 Intermediate Heat Transfer
Advanced topics in conduction, convection and radiation heat transfer including transient heat transfer, phase change and heat exchangers. Prerequisites: MEC-ENGR 360 and MEC-ENGR 399

Henry W. Bloch School of Management

School of Business & Public Administration Undergraduate Courses

Accounting (ACCTNG)

ACCTNG 210 Introduction To Financial Accounting
An overview of basic concepts and terminology associated with reporting financial information to parties outside of an organization. This course requires students to take an accompanying lab that meets one day a week. Prerequisite: Math 110 or its equivalent and completion of 30 hours.

ACCTNG 211 Introduction To Managerial Accounting
An introduction to the use of cost accounting concepts and information in managing the activities of a business. Prerequisite: ACCTNG 210 or its equivalent.
ACCTNG 307 Cost Management
A study of the principles and techniques of cost accounting with emphasis on the structure of cost accounting systems and the processing, summarizing and reporting of cost information. Topics include various issues relevant for manufacturing and service organizations, and introduction of situations that require the application of cost information to managerial settings. Prerequisite: ACCTNG 211 or its equivalent and Junior standing.

ACCTNG 307 Cost Management
A study of the principles and techniques of cost accounting with emphasis on the structure of cost accounting systems and the processing, summarizing and reporting of cost information. Topics include various issues relevant for manufacturing and service organizations, and introduction of situations that require the application of cost information to managerial settings. Prerequisite: ACCTNG 211 or its equivalent and Junior standing.

ACCTNG 310 Intermediate Accounting I
A study of theory and application of external corporate reporting. The course covers a variety of financial accounting issues including assets, liabilities, revenue recognition, and accounting change analysis. Publications and pronouncements of the accounting professions are emphasized where applicable. Prerequisites: ACCTNG 211 or its equivalent and junior standing.

ACCTNG 310 Intermediate Accounting I
A study of theory and application of external corporate reporting. The course covers a variety of financial accounting issues including assets, liabilities, revenue recognition, and accounting change analysis. Publications and pronouncements of the accounting professions are emphasized where applicable. Prerequisites: ACCTNG 211 or its equivalent and junior standing.

ACCTNG 311 Intermediate Accounting II
Continued study of intermediate accounting. The course covers a variety of financial accounting issues including corporate equities, income taxes, pensions, other post-employment benefits, leases, and the statement of cash flows. Publications and pronouncements of the accounting profession are emphasized where applicable. Prerequisites: ACCTNG 310 or its equivalent.

ACCTNG 311 Intermediate Accounting II
Continued study of intermediate accounting. The course covers a variety of financial accounting issues including corporate equities, income taxes, pensions, other post-employment benefits, leases, and the statement of cash flows. Publications and pronouncements of the accounting profession are emphasized where applicable. Prerequisites: ACCTNG 310 or its equivalent.

ACCTNG 350 Accounting Systems And Controls
This course examines a number of systems employed to process accounting information, the internal control activities typically used in each system and associated documentation techniques. Prerequisites: MIS 202 & ACCTNG 310

ACCTNG 350 Accounting Systems And Controls
This course examines a number of systems employed to process accounting information, the internal control activities typically used in each system and associated documentation techniques. Prerequisites: MIS 202 & ACCTNG 310

ACCTNG 405 Auditing
A study of how the auditor determines the nature and amount of evidence that should be accumulated considering the unique aspects of an engagement, as well as some idea of how that evidence is evaluated in the context of a financial audit. Prerequisites: ACCTNG 311 and ACCTNG 350 or equivalents.

ACCTNG 405 Auditing
A study of how the auditor determines the nature and amount of evidence that should be accumulated considering the unique aspects of an engagement, as well as some idea of how that evidence is evaluated in the context of a financial audit. Prerequisites: ACCTNG 311 and ACCTNG 350 or equivalents.

ACCTNG 408 Federal Income Taxation
An examination of the theory and practice of taxation as applied to individuals and businesses. Prerequisite: ACCTNG 211 or its equivalent.

ACCTNG 408 Federal Income Taxation
An examination of the theory and practice of taxation as applied to individuals and businesses. Prerequisite: ACCTNG 211 or its equivalent.

ACCTNG 409 Advanced Taxation
An examination of the theory, practice, and research methodology of taxation as applied to corporations, partnerships, estates and trusts. Prerequisite: ACCTNG 408 or equivalent.
ACCTNG 409 Advanced Taxation
An examination of the theory, practice, and research methodology of taxation as applied to corporations, partnerships, estates and trusts. Prerequisite: ACCTNG 408 or equivalent.

ACCTNG 420 Advanced Accounting
A study of the accounting business combinations and the preparation of consolidated financial statements. Prerequisite: ACCTNG 311 or equivalent

ACCTNG 421 Governmental/Not-For-Profit Accounting
An overview of accounting for state and local governments and not-for-profit entities. Pronouncements of the accounting profession are emphasized where applicable. Prerequisite: ACCTNG 311 or equivalent

ACCTNG 496 Internship: Accounting
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Admission only by prior approval and consent of the instructor. Note: Internship coursework is evaluated on a credit/no credit basis.

ACCTNG 497 Special Topics In Accounting
Study and research in accounting areas of special student interest, under individual faculty supervision and guidance. Admission only by prior approval and consent of the instructor. Prerequisite: Senior standing.

Decision Science and Operations Management (DSOM)
DSOM 309 Intermediate Business Statistics
This course emphasizes statistical applications in business, and students will complete research projects using one or more multivariate statistical techniques. Topics covered will include statistical software (such as SAS or SPSS), multiple regression, Chi-Square, analysis of variance, non-parametric methods, multidiscriminant analysis, factor analysis, and a brief introduction to structural equation models. Prerequisite: STAT 235

DSOM 326 Production/Operations Management
This course presents an introduction to the concepts, models, and methods of operations management. Students will study approaches to planning, scheduling, and controlling product and service facilities, processes, cost, quality, quantity, production, capacity, inventory, and distribution requirements. Computer applications and computer-based operations control systems will be introduced as a means to effectively manage the operations functions of both product and service organizations. Prerequisites: ECON 202 and STAT 235

DSOM 346 Management Analysis
This course examines the application of various scientific and mathematical methods to decision making in management, and makes use of spreadsheets and other software to construct and analyze practical methods of real-world systems. Applications will be based on topics such as project management, decision analysis, scheduling, queuing systems, simulation, optimization/allocation models, forecasting, and profitability analysis. Prerequisites: DSOM 326 and MIS 202.

DSOM 431 Quality and Process Improvement
A study of planning and managing effective quality and processes in organizations. Students are expected to master important quality management and process improvement tools including Six Sigma, Statistical Process Control, TQM, Theory of Constraints, and other contemporary tools via appropriate software, case studies, and projects. Prerequisites: DSOM 309 and DSOM 326.

DSOM 496 Internship: Decision Science and Operations Management
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor. Note: Internship coursework is evaluated on a credit/no credit basis.
DSOM 497 Special Topics: Decision Science and Operations Management
An opportunity for students to integrate their academic studies via employment with a business/organization in the community.
Prerequisite: Admission only by prior approval and consent of instructor

Entrepreneurship (ENT)
ENT 201 Entrepreneurship Immersion
This course is designed to inspire and nurture the entrepreneurial spirit of students. Students will gain an appreciation of the entrepreneurial process and the characteristics of successful entrepreneurs. Students will also learn how to identify entrepreneurial opportunities, how to turn those opportunities into start-up businesses, and whether entrepreneurship might be a potential career path. The course includes case studies and interactions with successful entrepreneurs. Offered: Fall and Spring. Restrictions: Not open to students who have completed ENT 215, 301, or ENT 315

ENT 215 Introduction to Entrepreneurship
This course is designed to introduce students to the excitement and challenges of building your own business. It focuses on identifying and evaluating entrepreneurial opportunities, as well as identifying what it takes to get a new venture off the ground. The course is enriched with real-life examples, including case studies of start-ups and personal stories from local entrepreneurs. The instructor emphasizes active, hands-on learning; additionally, student teams will get a taste for starting and running a company through a computerized business simulation.

ENT 301 Entrepreneurship Immersion
This course is designed to inspire and nurture the entrepreneurial spirit of students. Students will gain an appreciation of the entrepreneurial process and the characteristics of successful entrepreneurs. Students will also learn how to identify entrepreneurial opportunities, how to turn those opportunities into start-up businesses, and whether entrepreneurship might be a potential career path. The course includes case studies and interactions with successful entrepreneurs. Offered: Fall and Spring. Restrictions: Not open to students who have completed ENT 201, 215, or ENT 315

ENT 315 Introduction to Entrepreneurship
This course is designed to introduce students to the excitement and challenges of building your own business. It focuses on identifying and evaluating entrepreneurial opportunities, as well as identifying what it takes to get a new venture off the ground. The course is enriched with real-life examples, including case studies of start-ups and personal stories from local entrepreneurs. The instructor emphasizes active, hands-on learning; additionally, student teams will get a taste for starting and running a company through a computerized business simulation.

ENT 321 Real Estate Principles
The Student will be introduced to the very basics of real estate from the terminology, real estate's role in the economy, legal foundations, government controls, appraisal processes, valuation processes, brokering and closing transactions, time value of money, basic management issues and lease clauses, and basic standard form purchase contracts.

ENT 327 Creating the New Venture: Experiential Learning
This course guides students through the process, experiences, and requirements for creating a new venture and planning for operations up to the point of securing customers and generating first revenues. Key course actions include developing a business plan for the new venture, examining the initial steps for start-up and operational launch, and preparing for securing of customers/revenues. Prerequisites: ENT 201, ENT 215, ENT 301, or ENT 315

ENT 328 Creating the E-Business Experiential Learning
This course guides students through the process, experiences, and requirements for creating a new online e-venture and planning for operations up to the point of securing customers and generating first revenues. Key course actions include developing a business plan for the new venture, examining the initial steps for start-up and operational launch, and preparing for securing of customers revenues. Prerequisites: ENT 201, ENT 215, ENT 301, or ENT 315

ENT 332 Managing the New Venture: Experiential Learning
In this course, students will acquire the skill sets needed for managing and growing a successful new venture, and will actually manage a new enterprise. Prerequisites: ENT 327 or ENT 328

ENT 341 Technology Entrepreneurship
This course is designed to familiarize students with the creation of successful, high-value enterprises, with an emphasis on markets for technology and venture capital. Students identify a business opportunity, create a technology-based solution, and assess the commercial and technological viability of the business opportunity. Case studies will emphasize both life science and IT technologies.
ENT 361 New Product Development
This course introduces students to a formal process to develop new products and services. Throughout the process, students will learn how an abstract idea can be transformed into concrete product concepts that will in turn be translated into tangible working prototypes.

ENT 364 Entrepreneurial Management
Students are exposed to the unique entrepreneurial experience of conceiving, evaluating, creating, managing, and potentially selling a business. The goal is to provide a comprehensive background with practical application of important concepts applicable to an entrepreneurial environment. Key business areas of finance, accounting, marketing, and management will be addressed from an entrepreneurial perspective.

ENT 412 Entrepreneurial Finance and Venture Capital Investment
This course examines the financing and valuation of new ventures from the perspectives of entrepreneurs and venture capitalists. The focus is on financial thinking, tools, and techniques that are relevant for seeking new venture financing and making investment decisions. The course is suitable for anyone with an interest in startup companies, or venture capital and private equity firms. Prerequisite: Fin 325.

ENT 421 Real Estate Finance Fundamentals
This course will provide a fundamental understanding of basic financial concepts of real estate including compounding and discounting, construction of amortization tables and after-tax yield analysis for a simple real estate investment. It also touches on the basics of title insurance, ownership issues, fixed rate verses variable rate mortgages in residential real estate, understanding housing bubbles, and trends in valuation of residential real estate. In addition, the student will complete mathematical comparisons of leasing versus owning a home. Prerequisite: FIN 325

ENT 425 Corporate Entrepreneurship
Students receive an introduction to the field of corporate entrepreneurship, including the effectiveness of different models of corporate entrepreneurship. Specific topics include the creation of an entrepreneurial culture within the organization, the translation of opportunities into attractive corporate investments, corporate venturing, and the role of venture champions.

ENT 432 Entrepreneurial Marketing and Selling
This course exposes students to the objectives, challenges, and requirements for effective, results-oriented marketing activities and sales efforts for the entrepreneur/new venture. Key topics include the selection, design, and budgeting of entrepreneurial marketing and advertising programs, along with effective selling, customer acquisition, and service/retention efforts.

ENT 446 Entrepreneurial Selling and Sales Force Management
This course assists students in developing a successful sales plan for a new venture. The first half of the course deals with sales techniques; the second half addresses important sales force management topics such as recruitment, training, deployment, motivation, compensation, and evaluation.

ENT 460 Creating the Enterprise
This course looks at the processes and skills needed so that individuals can create their own enterprise, manage a new business, or work within an entrepreneurial organization. Students will learn how to take a good idea, assess that idea, and develop an appropriate business model, and will work in teams to develop a full-length business plan. Prerequisites: Students must have completed or be currently enrolled in the following courses: ACCTNG 211, FIN 325, MKT 324, MGT 330, and DSOM 326

ENT 491 Entrepreneurial Consulting
Working in teams, students will consult with small business client firms. This will require the identification of problems, the proposal of solutions, and the responsibility for implementing those solutions where practicable in the enterprise.

ENT 496 Internship: Entrepreneurship
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor. Note: Internship coursework is evaluated on a credit/no credit basis.

ENT 497 Special Topics: Entrepreneurship
Study and research in areas of special interest under individually faculty direction. Prerequisites: Senior standing and pre-registration consent of instructor.

ENT 497A Special Topics: Entrepreneurship
Study and research in areas of special interest under individually faculty direction. Prerequisites: Senior standing and pre-registration consent of instructor.
ENT 497B Special Topics: Entrepreneurship
Study and research in areas of special interest under individually faculty direction. Prerequisites: Senior standing and pre-registration consent of instructor.

ENT 497F Special Topics: Entrepreneurship
Study and research in areas of special interest under individually faculty direction. Prerequisites: Senior standing and pre-registration consent of instructor.

Finance (FIN)
FIN 325 Financial Management
This course provides an overview of the relationship between business decisions and the value of the firm, as determined by the marketplace. Students will study the composition of capital structure, capital budgeting, and cost of capital theory, including incremental analysis of investment situations. Prerequisite: ACCTNG 210

FIN 340 Global Financial Markets and Institutions
Students are introduced to global financial markets and institutions as well as the regulators. Topics include financial instruments, past and current global financial crises, financial restructuring and reforms, and the interrelationships between financial and real economies. Prerequisites: FIN 325

FIN 345 Investments
The course develops the theoretical framework necessary for a systematic approach to portfolio management. Content includes consideration of investment objectives, measurement of risk and returns, alternative uses of invested funds, analysis of securities markets, and the techniques of security analysis. Students will have an opportunity for the creation and management of an investment portfolio. Prerequisite: FIN 325

FIN 350 Introduction to Risk Management and Insurance
This course introduces students to the principles of personal and corporate risk management. Personal risk management topics include: personal insurance planning, annuity investing and personal liability management. Corporate risk management topics include: Managing corporate risk, reducing risk through hedging, and legal liability risk.

FIN 351 International Financial Management
The world's business activities and economics are becoming more integrated. This course provides an introduction, appreciation and understanding of how this process impacts financial decisions for global business. Students should expect to develop an integrated analytical and decision making perspective that will enable them to extend financial concepts such as capital budgeting and risk management, and instruments such as forwards, swaps, fixed income analysis, arbitrage, etc. to their international analogs. Prerequisite: FIN 325 or equivalent

FIN 419 Financial Statement Analysis
Students will take an in-depth look at the external financial statements that are prepared by corporations, including the tools needed to organize, summarize, and understand corporate financial data for use in decision making. Ratio analysis, trend analysis, earnings forecasting, bankruptcy predictors, statistical methods important to finance, and financial data bases are among the topics that will be covered. Prerequisites: FIN 325 and must have Junior standing with a major or minor within the Bloch School of Management

FIN 419 Financial Statement Analysis
Students will take an in-depth look at the external financial statements that are prepared by corporations, including the tools needed to organize, summarize, and understand corporate financial data for use in decision making. Ratio analysis, trend analysis, earnings forecasting, bankruptcy predictors, statistical methods important to finance, and financial data bases are among the topics that will be covered. Prerequisites: FIN 325 and must have Junior standing with a major or minor within the Bloch School of Management

FIN 427 Debt Instruments And Markets
An overall view of the financing process and the role of financial markets. The course will cover the characteristics of instruments traded in money and capital markets; determinants of and the relationships between different asset prices; and international aspects of financial markets. In particular, topics that will be covered include: Interest rate theory, valuing fixed income securities, managing interest rate risk, derivative financial instruments, capital market equilibrium, managing currency risk and applications of structured fixed income products. Prerequisites: ECON 202 and FIN 325

FIN 428 Commercial Bank Management
This course presents an overview of financial management of the interest spreads, credit risk, liquidity, and capital positions of commercial banks. Topics to be covered include analysis of bank profitability, lending functions and policy, securities investment
strategies, fund attraction, regulatory examination, capital adequacy, and integrated asset/liability management. Instructional media includes cases and computerized bank management simulation. Prerequisites: ECON 202 and FIN 325.

FIN 435 Advanced Corporate Finance
The course focuses on the finance function of the firm from the managerial perspective. Topics include working capital management, capital budgeting, financial structure, merger and reorganization, capital rationing, and analysis of risk. Students will use cases and computerized techniques. Prerequisite: FIN 325

FIN 496 Internship: Finance
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Admission only by prior approval and consent of instructor. Note: Internship coursework is evaluated on a credit/no credit basis.

FIN 497 Special Topics: Finance
Study and research in areas of special interest under individual faculty direction. Prerequisite: Senior Standing and pre-registration consent of instructor

FINE-ART 3HB Upper Level Fine Arts/ Humanities
Upper Level Transfer Credit

FINE-ART 3SE Upper Level Fine Arts Studio
Upper Level Transfer Credit

Management (MGT)
MGT 100 Foundations of Business and College Life
This course provides an introduction to the functional areas of business (e.g., accounting, systems, finance, marketing, human resources, and entrepreneurship) as well as a number of contemporary business topics, including social responsibility, diversity, ethics, and globalization. Additionally, students will be exposed to various topics that facilitate a successful transition from high school to college. Examples include an overview of University and Bloch School resources, development of effective study habits, time and stress management, selection of a major and career options. Restrictions: Open to freshmen.

MGT 301 Effective Business Communication
The instructor introduces students to the strategic nature of business communication. By the end of the course, students should be able to analyze business situations, prepare messages that fulfill the intended purposes of their communication, and meet the needs and expectations of business audiences. Students will develop the tools to deliver effective, professional written and oral communications, and will learn how to use library and electronic business research tools. Prerequisite: ENGLISH 225, successful completion of WEPT. Restrictions: Course must completed in student's junior year

MGT 306 Legal, Ethical And Regulatory Environment Of Business
The course looks at legal and moral thought, with attention to ethical issues in business. Students are introduced to our common law system; selected areas of law, with attention to the inclusion of cultural and moral values; and an introduction to government regulation of business.

MGT 320 Law Of Commercial Transactions
Study of major areas of law included in the Uniform Commercial Code. Topics may include sales, commercial paper, bank deposits and collections, aspects of property law, documents of title, investment securities, and secured transactions. Prerequisite: MGT 306.

MGT 330 Understanding the Individual in the Organization
This course explores the micro dynamics of organizations: the individual and his/her relationship to other people, teams, and work groups. Topics will include: individual traits, behaviors, and skills for effective performance; self-assessment and professional development; staffing; motivation; individual and group dynamics; multicultural understanding and diversity; and ethical decision making.

MGT 337 Managing Human Capital
Building on prior coursework, this course will provide students with advanced human resource concepts and practices as well as practical experience in how human resources should be managed in successful businesses. Student groups will work with a local organization to diagnose, analyze, and make recommendations regarding effective programs in staffing, developing, rewarding, motivating, and managing its personnel. Prerequisite: MGT 330.

MGT 355 Organizational Effectiveness and Leadership
Students will study the ‘macro dynamics’ of organizations: broad knowledge of how organizations work and the various ethical
means of impacting outcomes. Topics will include: structure, culture, and politics of organizations; human resources and linkages to organizational culture and success; organization influence and political savvy; managing change and learning in a global context; organizational governance, codes of conduct, and internal controls; the role of business in society; and various professional development issues. Prerequisite: MGT 330.

MGT 370 International Management
Students receive an introduction to management in an international environment, addressing the management functions and behaviors necessary to develop global vision and management skills at a strategic (macro) and interpersonal (micro) level. Cross-cultural management and competitive strategy are evaluated in the context of global changes.

MGT 470 International Study in Business
This course is designed to provide a study-abroad experience for the student. The course involves three components: study of international business through on-campus lectures and discussions; travel to a foreign country for visitations to business firms, government organizations, and cultural sites; and critique sessions of the international learning experience after travel completion. Restrictions: Special application and selection process prior to enrollment

MGT 471 Strategic Management
The study of business strategy concepts and application using case studies representing "real world" situations. The course stresses the formulation of business strategies to achieve organizational objectives using strategic analysis and models based upon external and internal assessments of the organization's environment. Prerequisites: ACCTNG 211, FIN 325, MGT 330, MKT 324, and DSOM 326 (or concurrent enrollment).

MGT 496 Internship: Management
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Admission only by prior approval and consent of instructor. Note: Internship coursework is evaluated on a credit/no credit basis.

MGT 497 Special Topics: Management
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.

Management Information Systems (MIS)
MIS 202 Computer Applications In Management
A comprehensive coverage of computer tools for personal productivity in a management context, including spreadsheets and databases. Prerequisites: Math 110 or equivalent.

MIS 402 Information Management
This course introduces students to the impact of information technologies and systems on the enterprise. Business Intelligence and decision support capabilities are explored as well. Prerequisites: MIS 202 and STAT 235

MIS 415 Managing the Information Systems Resource
All organizations today have information systems, and managing the related resources (systems personnel, software applications, databases, networks, computing hardware) is a necessary skill for many employees. This course is aimed at developing the non-technical skills that business-school graduates need to make appropriate decisions about the deployment of information systems throughout the firm. Prerequisites: MIS 202 and six hours of business school courses at the 300-level or above.

MIS 496 Internship: Management Information Systems
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor. Note: Internship coursework is evaluated on a credit/no credit basis.

MIS 497 Special Topics: Management Information Systems
Study and research in areas of special interest under individual faculty direction. Prerequisite: Senior Standing and pre-registration consent of instructor

Marketing (MKT)
MKT 324 Marketing Concepts
The course focuses on the processes involved in the marketing of goods and services, including the meaning and importance of marketing terminology, the marketing mix, the marketing concept, consumerism, market segmentation, market and marketing research, and the impacts of different competitive structures on marketing decision making.
MKT 335 Consumer Behavior in Marketing
This course draws upon findings from various disciplines including cognitive psychology, social psychology, sociology, economics, and anthropology to understand and predict buying behavior. Structured around applications in marketing strategy, topical coverage includes motivation, perception, attitude change, choice decisions and the consumption process, as well as post-purchase satisfaction. Prerequisite: MKT 324

MKT 348 Market Analysis
Market Analysis equips students with the tools needed to be intelligent users of market data. Topics to be covered include the design of research projects, questionnaire design, sampling, data collection techniques, data analysis, and the presentation of results. Prerequisites: MKT 324 and DSOM 309, or concurrent enrollment

MKT 418 Sales and Promotion Strategies
Students receive exposure to the planning, implementation, and evaluation of various revenue-generating and promotional strategies. Topics covered will include the analysis of customers, competitors, and product markets; market segmentation; product positioning; media planning; promotional effectiveness; and client-agency relationships. Prerequisite: MKT 324

MKT 442 Internet/Direct Marketing
This course examines internet and direct marketing as these topics relate to marketing strategy and the overall marketing plan. Coverage will include topics such as website traffic, customer relationship management (CRM), email marketing, podcasts, blogs, social media, online video, online advertising, online marketing research, and other strategies and tactics for customer acquisition, retention, and add-on selling. Prerequisite: MKT 324

MKT 465 Introduction to Retailing and Pricing
This course presents an approach to retail and pricing management. Topics covered in the course include: retail strategy development, understanding the customer, retail information systems, market location selection, merchandise buying and handling, financial operations management, human resource management, operations management, store layout and design, laws, ethics, and retail tactics.

MKT 476 Services Marketing
The purpose of this course is to show how the marketing of services differs from the marketing of goods. Additionally, students will learn the relationship between service quality and customer satisfaction, how to understand and assess service expectations, and how to match those expectations with company standards. Prerequisite: MKT 324.

MKT 480 Marketing Strategy
This senior-year capstone examines various activities within the overall marketing process, and introduces the development and application of an analysis framework. The use of case problems and technology, and exposure of issues related to ethics, allow the student to gain a full understanding of the relationship between marketing and management. Prerequisite: Nine hours of marketing, including MKT 324.

MKT 496 Internship: Marketing
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor. Note: Internship coursework is evaluated on a credit/no credit basis.

MKT 497 Special Topics: Marketing
Study and research in areas of special interest under individual faculty direction. Prerequisite: Senior Standing and pre-registration consent of instructor

Public Administration (PUB-ADM)

PUB-ADM 310 Introduction To Public Administration
Introductory analysis of the theory and practice of public administration and its special role in society. General examination of newer approaches to planning, programming, budgeting, and system analysis in the responsible-responsive administration context. The political role of the public administrator in public policy formulation and his/her general strategies.

PUB-ADM 310 Introduction To Public Administration
Introductory analysis of the theory and practice of public administration and its special role in society. General examination of newer approaches to planning, programming, budgeting, and system analysis in the responsible-responsive administration context. The political role of the public administrator in public policy formulation and his/her general strategies.

PUB-ADM 410 Research Methods In Public Administration
This introductory course focuses on quantitative empirical research design and statistical analyses in relation to public
administration issues and concerns. Prerequisite(s): Admission to MPA 5 year program.

PUB-ADM 415 Issues In Urban Administration
This course is designed for students in urban affairs, urban planning, business administration, political science, sociology, geosciences, economics and related fields. It provides an overview of major issues and trends in urban administration. Issues include taxes, urban sprawl, race/ethnicity, education, poverty, affordable housing, environment, crime, and land use. Particular focus will be paid to public policy, comparing policies and leadership to construct an interdisciplinary, comparative understanding of how cities address these problems, issues and trends.

PUB-ADM 448 Leadership For Public Service
The two core purposes of this course are for students to learn about effective and ethical leadership, and for students to understand and develop their own capacity for leadership. The course is organized around three general themes: 1) leadership as relations with subordinates, including issues of work motivation; 2) leadership as lateral relations, including organizational politics and conflict management and resolution; and 3) leadership as influence in the organization's environment. Prerequisite(s): Admission to MPA 5 year program.

PUB-ADM 455 Non-Profit Leadership Issues
Focusing on leadership issues in nonprofits, this course will explore issues in an intensive seminar format (fifteen class hours). Topics include building and renewing nonprofit boards, and the power of diversity in nonprofit organizations. Recommended for nonprofit management students.

PUB-ADM 455B Non-Profit Leadership Issues: Board-Staff Relations

PUB-ADM 455C Non-Profit Leadership Issues:A Vital Resource In A Changing World

PUB-ADM 495 Voluntarism, Philanthropy & The Non-Profit Sector In The U.S.
This course provides a survey of the origins, development and contemporary functioning of the private, nonprofit sector in the U.S. The course explores theories and concepts that describe the social, political, legal and economic meaning of voluntarism, philanthropy and the nonprofit sector.

PUB-ADM 497 Special Topics In Public Administration
Study and research in areas of special interest under individual faculty direction. Prerequisite: Senior standing and pre-registration consent of instructor.

PUB-ADM 497B Special Topics In Public Administration

Real Estate (RL-EST)
RL-EST 321 Real Estate Principles
The Student will be introduced to the very basics of real estate from the terminology, real estate's role in the economy, legal foundations, government controls, appraisal processes, valuation processes, brokering and closing transactions, time value of money, basic management issues and lease clauses, and basic standard form purchase contracts.

RL-EST 322 Real Estate Principles II
The objectives of this course are to expand on the concepts taught in the prerequisite to this course known as "Real Estate Principles". It will explain the role of the real estate broker as well as their legal responsibilities. It will cover agency law, current disclosure laws and provide a thorough understanding of the real estate license laws. Upon completion of this course the student would be eligible to take the Real Estate licensing examination for the state of Missouri. Prerequisites: RL-EST 321/ENT
**RL-EST 421 Real Estate Finance Fundamentals**
This course will provide a fundamental understanding of basic financial concepts of real estate including compounding and discounting, construction of amortization tables and after-tax yield analysis for a simple real estate investment. It also touches on the basics of title insurance, ownership issues, fixed rate versus variable rate mortgages in residential real estate, understanding housing bubbles, and trends in valuation of residential real estate. In addition, the student will complete mathematical comparisons of leasing versus owning a home. Prerequisite: FIN 325

**RL-EST 425 Principles of Real Estate Property Management**
Explores the complexities of managing apartments, condominiums, office buildings, industrial property, and shopping centers. This course covers rental markets, development of rental schedules, leasing techniques and negotiations, repairs and maintenance, tenant relations, merchandising, selection and training of personnel, accounting and owner relations.

**RL-EST 496 Internship: Real Estate**
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor. Note: Internship coursework is evaluated on a credit/no credit basis.

**RL-EST 497 Special Topics: Real Estate**
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior standing and pre-registration consent of instructor.

**RL-EST 497A Special Topics-Real Estate**
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior standing and pre-registration consent of instructor.

**RL-EST 497B Special Topics-Real Estate**
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior standing and pre-registration consent of instructor.

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**Conservatory of Music & Dance**

**Conservatory of Music and Dance Undergraduate Courses**

**Conservatory (CONSVTY)**

**CONSVTY 101C Voice Class I**
A course in the fundamentals of correct voice productions; breathing, breath control, study of vowel forms and consonants. Elementary songs. Poise, posture, and stage presence. This course covers two points of view: development of the student's own voice and the pedagogy of voice-class instruction. A voice audition is required before registration.

**CONSVTY 101C Voice Class I**
A course in the fundamentals of correct voice productions; breathing, breath control, study of vowel forms and consonants. Elementary songs. Poise, posture, and stage presence. This course covers two points of view: development of the student's own voice and the pedagogy of voice-class instruction. A voice audition is required before registration.

**CONSVTY 103 Fundamentals Of Music Theory**
An introduction to the rudiments of music theory and basic musicianship skills. Designed primarily as a review course for Conservatory students. Non-music majors may also enroll in this course.

**CONSVTY 104 Jazz Improvisation I**
A systematic approach to the art of jazz improvisation. Emphasis upon performance as well as analysis. Prerequisite: CONSVTY 122 or consent of the instructor.
122 or consent of the instructor.

**CONSVTY 105** Jazz Improvisation For Non-Jazz Majors
This course is designed to provide the non-Jazz major with fundamental concepts needed to compose spontaneously. Blues and basic jazz forms are covered through performance and recordings. Offered: Fall

**CONSVTY 105** Jazz Improvisation For Non-Jazz Majors
This course is designed to provide the non-Jazz major with fundamental concepts needed to compose spontaneously. Blues and basic jazz forms are covered through performance and recordings. Offered: Fall

**CONSVTY 108** Beginning Piano For Non-Music Majors
A class for non-music majors to acquire basic piano skills. Popular arrangements and group techniques designed to encourage students to play the piano for pleasure. Prerequisite: Consent of the instructor.

**CONSVTY 108** Beginning Piano For Non-Music Majors
A class for non-music majors to acquire basic piano skills. Popular arrangements and group techniques designed to encourage students to play the piano for pleasure. Prerequisite: Consent of the instructor.

**CONSVTY 110** Keyboard Skills I
Group instruction focused on developing basic keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.

**CONSVTY 110** Keyboard Skills I
Group instruction focused on developing basic keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.

**CONSVTY 114** Keyboard Skills I for Piano Majors
Techniques of sight reading, transposition, improvisation and open-score reading.

**CONSVTY 114** Keyboard Skills I for Piano Majors
Techniques of sight reading, transposition, improvisation and open-score reading.

**CONSVTY 115** Keyboard Skills II for Piano Majors
Continuation of CONSVTY 114.

**CONSVTY 115** Keyboard Skills II for Piano Majors
Continuation of CONSVTY 114.

**CONSVTY 120** Music Appreciation
Designed for the general University student with little or no music background and required for Dance Majors (no credit for music majors). An emphasis on the basic elements of music and the historical and stylistic periods, illustrated by examples from different genre, such as instrumental and vocal ensembles, large and small, solo literature for voice and instruments, and dance. Three class sessions a week with frequent live performance and guest speakers.

**CONSVTY 120** Music Appreciation
Designed for the general University student with little or no music background and required for Dance Majors (no credit for music majors). An emphasis on the basic elements of music and the historical and stylistic periods, illustrated by examples from different genre, such as instrumental and vocal ensembles, large and small, solo literature for voice and instruments, and dance. Three class sessions a week with frequent live performance and guest speakers.

**CONSVTY 121** Music Theory I
A course presenting the elementary melodic, rhythmic, and harmonic elements of music through part-writing and analysis. The vocabulary for the first semester includes traditional usage and analysis of triads and their inversions, nonharmonic tones, introduction to chords of the seventh, and elementary modulation.

**CONSVTY 122** Music Theory II
Continuation of CONSVTY 121. Prerequisite: CONSVTY 121 or equivalent.

**CONSVTY 123** Keyboard Skills II
Continued group instruction focused on developing basic keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.
CONSVTY 123 Keyboard Skills II  
Continued group instruction focused on developing basic keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.

CONSVTY 125 History And Development Of Rock And Roll  
Designed for students with little or no music background, the course is an exploration of American popular music from early Rhythm and Blues and Country Western through Woodstock. Examines in detail the social/racial issues most important to the music and the cultural history of twentieth-century America. The course features online video lectures and numerous interviews with professors and scholars from other disciplines, presenting a perspective of the influence of this music on nearly every area of American life. Students are required to participate in online discussion groups as part of the class. Music majors may enroll for music elective credit.

CONSVTY 126 Introduction to World Music  
An introduction to global music traditions and their cultural contexts. Open to all students.

CONSVTY 128 Introduction To Music Education/Music Therapy  
An introductory course for all BME Choral and Instrumental majors, all music therapy majors, and all students who want general information about the field of music education and music therapy. Includes information on the profession and the role of music education in a school curriculum, as well as the role of music therapy in various settings.

CONSVTY 129A Ear Training And Solfege  
Study of tonal aural problems and rhythms. Introduction to movable do solfege.

CONSVTY 129A Ear Training And Solfege  
Study of tonal aural problems and rhythms. Introduction to movable do solfege.

CONSVTY 129B Ear Training And Solfege  
Continuation of CONSVTY 129A. Prerequisite: CONSVTY 129A.

CONSVTY 130 Music Therapy Techniques: Adults  
Class demonstration and participation in use of materials for psychiatric and geriatric clients. Required of all BME Therapy majors.

CONSVTY 133 Beginning Composition I  
Introduction to the compositional process, including notation, calligraphy and score preparation, styles and forms, and related topics. A weekly one-hour lab is required.

CONSVTY 133A Beginning Composition For Non-Composition Majors I  
An introductory course in music composition, with exercises in instrumentation, notation, orchestration, form, melodic construction, harmony, counterpoint, and rhythm. Discussion and analysis of current works, trends and techniques in music composition. Final project is an original composition. A weekly one-hour lab is required.

CONSVTY 133B Beginning Composition For Prospective Composition Majors  
A class for students wishing to work toward major status in the music composition program. Exercises and projects as in 133A, with an extra hour per-week of in-depth, guided exercises and portfolio development. Prerequisite: Permission of the instructor via evaluation of a composition portfolio-in-progress on the first day of class. A weekly one-hour lab is required.

CONSVTY 134 Beginning Composition II  
Continuation of CONSVTY 133. Prerequisites: CONSVTY 121 and CONSVTY 133 or consent of the instructor. A weekly one-hour lab is required.

CONSVTY 134A Beginning Composition For Non-Composition Majors II  
Prerequisites: CONSVTY 133A or consent of the instructor via portfolio evaluation on the first day of class. A weekly one-hour lab is required.

CONSVTY 134B Beginning Composition For Prospective Composition Majors II  
Continuation of CONSVTY 133B. Exercises and projects as in CONSVTY 134A, with an extra hour per-week of in-depth, guided exercises and portfolio development. Prerequisites: CONSVTY 133B or consent of the instructor via portfolio evaluation.
on the first day of class. A weekly one-hour lab is required.

**CONSVTY 150** Introduction To Music Literature
An introduction to the major composers, literature, and forms of the various historical periods. Bibliographical sources and library procedures as well as extensive listening requirements are included.

**CONSVTY 154** Music Listening Laboratory
Listening includes works of all major periods and styles in live performance. May be repeated for credit. Required for all Conservatory music majors. Non-music majors encouraged to enroll.

**CONSVTY 154** Music Listening Laboratory
Listening includes works of all major periods and styles in live performance. May be repeated for credit. Required for all Conservatory music majors. Non-music majors encouraged to enroll.

**CONSVTY 154A** Music Listening Laboratory: Non-Western Cultures
The course is a study of music in culture and introduces undergraduate students to living music, musical instruments, and dance of oral traditions and music of high cultures outside the limits of urban European art music through discussion, performance, and observation. Required for all Conservatory music majors. Non-music majors are encouraged to enroll.

**CONSVTY 161** String Instrument Laboratory
Designed for the student working at a beginning level of performance on string instruments. Instruction will focus on basic playing techniques and pedagogical issues. Enrollment for credit not required if student is concurrently enrolled in CONSVTY 373 (A&B), CONSVTY 381, CONSVTY 383, or CONSVTY 386. Prerequisite: Permission of instructor.

**CONSVTY 161** String Instrument Laboratory
Designed for the student working at a beginning level of performance on string instruments. Instruction will focus on basic playing techniques and pedagogical issues. Enrollment for credit not required if student is concurrently enrolled in CONSVTY 373 (A&B), CONSVTY 381, CONSVTY 383, or CONSVTY 386. Prerequisite: Permission of instructor.

**CONSVTY 171** Foreign Language For Singing I
A course for Italian and German diction. Emphasis is placed on oratorio rather than conversational pronunciation. Required for BME Choral and BM voice.

**CONSVTY 172** Foreign Language For Singing II
A course for French and Latin diction. Emphasis is placed on oratorio rather than conversational pronunciation. Required for BME Choral and BM voice.

**CONSVTY 180** Music In Special Education
Class demonstration and participation in the use of music materials for handicapped children.

**CONSVTY 185A** Foreign Language For Singing I

**CONSVTY 185B** Foreign Language For Singing II
A course for Italian diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

**CONSVTY 185C** Foreign Language For Singing III
A course for German diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

**CONSVTY 185D** Foreign Language For Singing Iv
A course for French diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

**CONSVTY 199** Kangaroo Band
This band will provide music for men's and women's basketball games. Members are required to attend all home games. Open to all University students by audition.

**CONSVTY 199** Kangaroo Band
This band will provide music for men's and women's basketball games. Members are required to attend all home games. Open to all University students by audition.
CONSVTY 202 Basic Techniques Of Audio Recording I
A study of the philosophy, history, and development of audio recording. Practical application of recording techniques and
development of recording skills.

CONSVTY 202 Basic Techniques Of Audio Recording I
A study of the philosophy, history, and development of audio recording. Practical application of recording techniques and
development of recording skills.

CONSVTY 203 Basic Techniques Of Audio Recording II
Continuation of study of recording techniques and development of recording skills. Prerequisite: CONSVTY 202 or consent of
the instructor.

CONSVTY 203 Basic Techniques Of Audio Recording II
Continuation of study of recording techniques and development of recording skills. Prerequisite: CONSVTY 202 or consent of
the instructor.

CONSVTY 204 Jazz Improvisation II
Prerequisite: CONSVTY 104 or consent of the instructor.

CONSVTY 204 Jazz Improvisation II
Prerequisite: CONSVTY 104 or consent of the instructor.

CONSVTY 205 Applied Jazz Studies
Unlimited repeatability. This weekly private lesson includes the study of advanced concepts used to compose spontaneously.
Includes the analyses of harmonic progressions, applications of scales and rhythmic interpretation. Prerequisite: Jazz majors
with the approval of the instructor.

CONSVTY 210 Clinical Experience
One hour minimum of supervised clinical experience in music therapy and one hour of seminar per week, which includes practice
in developing a treatment plan and writing clinical progress reports. All clinicals regardless of contact hours must have a
minimum on-site 10 week duration.

CONSVTY 210A Clinical Experience: I
Must be taken concurrently with CONSVTY 260

CONSVTY 210B Clinical Experience: II
Primarily assists the site coordinator with some leadership responsibilities.

CONSVTY 210C Clinical Experience: III
Equal assisting and leading responsibilities on-site

CONSVTY 210D Clinical Experience: IV
Some assisting and primarily leading responsibilities on-site.

CONSVTY 210E Clinical Experience: V
Must be taken concurrently with CONSVTY 408

CONSVTY 210F Clinical Experience Vi
Must be taken concurrently with CONSVTY 409.

CONSVTY 214 Keyboard Skills III for Piano Majors
Techniques of sight reading, transposition, improvisation and open-score reading. Prerequisite: CONSVTY 115.

CONSVTY 214 Keyboard Skills III for Piano Majors
Techniques of sight reading, transposition, improvisation and open-score reading. Prerequisite: CONSVTY 115.

CONSVTY 215 Keyboard Skills IV for Piano Majors
Continuation of CONSVTY 214. Prerequisite: CONSVTY 214.

CONSVTY 215 Keyboard Skills IV for Piano Majors
Continuation of CONSVTY 214. Prerequisite: CONSVTY 214.
CONSVTY 221 Music Theory III
Continuation of CONSVTY 122. Introduction to nineteenth century harmony. Prerequisite: CONSVTY 122.

CONSVTY 222A Music Theory IV
Continuation of CONSVTY 221. An introduction to 20th century analysis and techniques, focusing on popular music and jazz styles. Study in performing, compositional skills, and related ear-training. Prerequisite: CONSVTY 221.

CONSVTY 223 Keyboard Skills III
Group instruction focused on developing intermediate keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.

CONSVTY 223A Keyboard Skills III
Group instruction focused on developing intermediate keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.

CONSVTY 227 Jazz Keyboards Techniques II
This course is a continuation of Conservatory 226 Jazz Keyboard Techniques I. Prerequisite: Cons 226 or consent of instructor.

CONSVTY 229A Ear Training And Solfege
Continuation of CONSVTY 129B. Prerequisite: CONSVTY 129B.

CONSVTY 229A Ear Training And Solfege
Continuation of CONSVTY 129B. Prerequisite: CONSVTY 129B.

CONSVTY 229B Ear Training And Solfege
Continuation of CONSVTY 229A. Prerequisite: CONSVTY 229A.

CONSVTY 229B Ear Training And Solfege
Continuation of CONSVTY 229A. Prerequisite: CONSVTY 229A.

CONSVTY 233 Intermediate Composition I
Continuation of CONSVTY 134. A weekly one-hour lab is required. Prerequisites for composition majors: CONSVTY 134 and CONSVTY 122 or consent of the instructor. Prerequisites for non-majors: a significant composition portfolio (to be submitted on the first day of class for consideration).

CONSVTY 233A Beginning Composition for Non-Composition Majors I
Continuation of CONSVTY 134A. A weekly one-hour lab is required. Prerequisite: CONSVTY 122 and CONSVTY 134A, or consent of the composition faculty via portfolio submission on the first day of class.

CONSVTY 233A Beginning Composition for Non-Composition Majors I
Continuation of CONSVTY 134A. A weekly one-hour lab is required. Prerequisite: CONSVTY 122 and CONSVTY 134A, or consent of the composition faculty via portfolio submission on the first day of class.

CONSVTY 234 Intermediate Composition II
Continuation of CONSVTY 233. Prerequisites for composition majors: CONSVTY 221 and CONSVTY 233 or consent of the instructor. Prerequisites for non-majors: a significant composition portfolio (to be submitted on the first day of class for consideration).

CONSVTY 234A Beginning Composition for Non-Composition Majors II
Continuation of CONSVTY 233A. A weekly one-hour lab is required. Prerequisite: CONSVTY 221 and CONSVTY 233A, or consent of the composition faculty via portfolio submission on the first day of class.

CONSVTY 234A Beginning Composition for Non-Composition Majors II
Continuation of CONSVTY 233A. A weekly one-hour lab is required. Prerequisite: CONSVTY 221 and CONSVTY 233A, or consent of the composition faculty via portfolio submission on the first day of class.

CONSVTY 235 Techniques Of Electronic Music I: Digital Audio
Conservatory 235 is designed to give students a thorough grasp of studio hardware and software used in composing music with digital audio. Studio configuration, sampling/recording, mixing, effects processing, synthesis, multi-tracking, wave editor and digital audio work station software, basic MIDI and electroacoustic literature and ear training will be discussed in the process of creating a short original composition. Focus will also be on fostering independent creativity and problem solving in a music studio. In addition to three 50-minute lecture/demo sessions per week, 3-5 hours minimum of in-studio work time is expected.
Open to anyone regardless of musical training. Offered: Fall

CONSVTY 236 Techniques Of Electronic Music II: MIDI
Conservatory 236 is designed to give students a grasp of studio hardware and software used in composing music with MIDI. Studio configuration, sampling, mixing, effects processing, multi-tracking, MIDI, and basic digital audio work station software will be taught along with electroacoustic literature and ear training. The course focuses on creating a short composition using MIDI technology. Focus will also be on fostering independent creativity and problem solving in a music studio. In addition to three 50-minute lecture/demo sessions per week, 3-5 hours minimum of in-studio time is expected. Open to anyone regardless of musical training. Offered: Spring

CONSVTY 260 Clinical Foundations Of Music Therapy
This course is intended to prepare students majoring in music therapy for clinical experiences in the community. Students learn and develop skills related to the treatment process. Prerequisites: Students must take concurrently with CONSVTY 210A, Clinical Experience I

CONSVTY 270 Marching Band & Jazz Ensemble Techniques
This course is designed to prepare pre-service teachers with pedagogical and organizational techniques for marching band and jazz ensembles in the schools. The course will include developing practical rehearsal techniques for teaching body manipulation in space, designing and evaluating marching band field design and maneuvers, jazz ensemble pedagogy, jazz improvisation pedagogy, and the use of appropriate materials. A field experience component will further student interaction with an active band program that will allow continued examination and development of a philosophy on the role of marching band and jazz ensembles within the school curriculum. Prerequisite: Permission of faculty.

CONSVTY 285 Elementary Music Methods
Laboratory course for classroom teachers in which principles of instructional design will be applied to music teaching. Students who have extensive music background may elect CONSVTY 385 in place of CONSVTY 285.

CONSVTY 301B Men's Chorus

CONSVTY 301B Men's Chorus

CONSVTY 301C Bella Voce

CONSVTY 301C Bella Voce

CONSVTY 301D Connection

CONSVTY 301D Connection

CONSVTY 301E Opera/Musical Theatre Ensemble
An introduction to opera/musical theatre performance techniques for chorus. Major literature for opera choruses will also be surveyed. Members of this class will be required to perform in an Opera or Musical Comedy chorus. Prerequisites: None.

CONSVTY 301E Opera/Musical Theatre Ensemble
An introduction to opera/musical theatre performance techniques for chorus. Major literature for opera choruses will also be surveyed. Members of this class will be required to perform in an Opera or Musical Comedy chorus. Prerequisites: None.

CONSVTY 301G Ensemble For Composers
Observation, score analysis, non-performance participating during a semester's rehearsals and performance by a participating Conservatory ensemble. Students a.) keep journals that are periodically reviewed and graded by the composition faculty, and b.) meet with composition faculty periodically to review and discuss issues raised in the ensemble settings. Prerequisite(s): Successful completion of four semesters of major ensemble participation as a performer, and either CONSVTY 234 or permission of the composition faculty.

CONSVTY 301G Ensemble For Composers
Observation, score analysis, non-performance participating during a semester's rehearsals and performance by a participating
Conservatory ensemble. Students a.) keep journals that are periodically reviewed and graded by the composition faculty, and b.) meet with composition faculty periodically to review and discuss issues raised in the ensemble settings. Prerequisite(s): Successful completion of four semesters of major ensemble participation as a performer, and either CONSVTY 234 or permission of the composition faculty.

CONSVTY 301H Musica Nova

CONSVTY 301H Musica Nova

CONSVTY 302 Orchestra
Required of all qualified music majors and open to all interested students by audition.

CONSVTY 302 Orchestra
Required of all qualified music majors and open to all interested students by audition.

CONSVTY 303B Jazz Band
The Jazz Ensemble comprises saxophone, trombone, trumpets and rhythm section students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and original music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition. Prerequisite: Approval of the instructor.

CONSVTY 303B Jazz Band
The Jazz Ensemble comprises saxophone, trombone, trumpets and rhythm section students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and original music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition. Prerequisite: Approval of the instructor.

CONSVTY 303C Percussion Ensemble

CONSVTY 303C Percussion Ensemble

CONSVTY 303D Accordion Orchestra

CONSVTY 303E Jazz Workshop
Prerequisite: Consent of the instructor.

CONSVTY 303E Jazz Workshop
Prerequisite: Consent of the instructor.

CONSVTY 303G Jazz Orchestra
The Jazz ensemble comprises saxophone, trombone, trumpets and rhythm section students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and original music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition. Prerequisites: Approval of instructor.

CONSVTY 303G Jazz Orchestra
The Jazz ensemble comprises saxophone, trombone, trumpets and rhythm section students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and original music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition. Prerequisites: Approval of instructor.

CONSVTY 303J Large Ensemble Rhythm Section Workshop
This weekly private lesson includes the study of advanced concepts used to compose spontaneously. Includes the analyses of harmonic progressions, applications of scales and rhythmic interpretation. Prerequisites Jazz majors with the approval of the instructor.
CONSVTY 304 Jazz Improvisation III
Prerequisite: CONSVTY 204 or consent of the instructor.

CONSVTY 304 Jazz Improvisation III
Prerequisite: CONSVTY 204 or consent of the instructor.

CONSVTY 305A Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

CONSVTY 305A Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

CONSVTY 305B Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

CONSVTY 305B Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

CONSVTY 305C Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

CONSVTY 305C Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

CONSVTY 305E Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

CONSVTY 305E Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

CONSVTY 305G Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coachings.

CONSVTY 305G Principles Of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coachings.

CONSVTY 305H Chamber Orchestra

CONSVTY 305H Chamber Orchestra

CONSVTY 305J Chamber Music Guitar

CONSVTY 305J Chamber Music Guitar

CONSVTY 306A Conservatory Wind Ensemble
CONSVTY 306A Conservatory Wind Ensemble

CONSVTY 306C Wind Symphony
The Wind Symphony comprises wind, brass and percussion students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and chamber music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition.

CONSVTY 306C Wind Symphony
The Wind Symphony comprises wind, brass and percussion students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and chamber music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition.

CONSVTY 307A Canticum Novum

CONSVTY 307A Canticum Novum

CONSVTY 307B University Singers
Mixed chorus specializing in choral-orchestral literature. May be repeated for credit. Open by audition to University students, regardless of major.

CONSVTY 307B University Singers
Mixed chorus specializing in choral-orchestral literature. May be repeated for credit. Open by audition to University students, regardless of major.

CONSVTY 308A Conservatory Concert Choir

CONSVTY 308A Conservatory Concert Choir

CONSVTY 309 Audio Recording III
Continuation of study of recording techniques and music production skills. Prerequisite: CONSVTY 203.

CONSVTY 310 Keyboard Skills IV
Group instruction focused on developing intermediate keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications. The Piano Proficiency Exam is administered as part of this course.

CONSVTY 310 Keyboard Skills IV
Group instruction focused on developing intermediate keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications. The Piano Proficiency Exam is administered as part of this course.

CONSVTY 311 Jazz Theory
The basics of written jazz harmony and its nomenclature will be addressed. Topics covered will include but not be limited to jazz scales and modes: chords, i.e. from the 7 through the 13 with all of their frequent jazz alterations; harmonic progressions, reharmonization; voice leading, dissonance; melody, transcription, analysis and the study of form(s). Notation will be addressed throughout. Students will acquire the fundamentals to pursue jazz improvisation, arranging and composition on a more informed level. This class is a prerequisite to Jazz Arranging. Prerequisite: CONSVTY 222B Theory IV and instructor permission

CONSVTY 314 Seminar In Chamber Music
Potential enrollees must audition. Those accepted from a pool of players from which chamber groups are drawn each semester. Groups must rehearse four hours a week, and will receive a one-hour coaching each week. All enrollees will also take part in a periodic chamber music master class. This class, two hours in length, will be taught by various members of the core chamber music faculty and by guest artists.
CONSVTY 314 Seminar In Chamber Music
Potential enrollees must audition. Those accepted from a pool of players from which chamber groups are drawn each semester. Groups must rehearse four hours a week, and will receive a one-hour coaching each week. All enrollees will also take part in a periodic chamber music master class. This class, two hours in length, will be taught by various members of the core chamber music faculty and by guest artists.

CONSVTY 315 Popular Piano Styles
Course covers techniques of leading piano stylists from early ragtime to the present. Includes listening, analysis, arranging, and performing. Prerequisite: Completion of Piano Proficiency Exam or consent of the instructor.

CONSVTY 315 Popular Piano Styles
Course covers techniques of leading piano stylists from early ragtime to the present. Includes listening, analysis, arranging, and performing. Prerequisite: Completion of Piano Proficiency Exam or consent of the instructor.

CONSVTY 316 Popular Guitar Styles
Course covers techniques of leading guitar styles from the 1920's to present. Includes listening, analysis, transcription, and performing. Prerequisite: Completion or credit by exam of CONSVTY 373G, or by consent of instructor.

CONSVTY 318 Jazz Ear Training And Listening
This course offers the student basic fundamental techniques needed to improve aural perceptions in both the translation of hearing into writing and the performance of reading into singing and playing in the jazz idiom. Introduction and practice in singing, aural recognition and writing of intervals and short, simple melodies. Also including rhythm, memory and improvisational drills. Prerequisite: CONSVTY 329 Advanced Ear Training

CONSVTY 318 Jazz Ear Training And Listening
This course offers the student basic fundamental techniques needed to improve aural perceptions in both the translation of hearing into writing and the performance of reading into singing and playing in the jazz idiom. Introduction and practice in singing, aural recognition and writing of intervals and short, simple melodies. Also including rhythm, memory and improvisational drills. Prerequisite: CONSVTY 329 Advanced Ear Training

CONSVTY 319 Opera Role Performance
Preparation, rehearsal and performance of a role in an opera or music theatre production at UMKC. Credit for performance as part of the ensemble/chorus may be received from this course after the two chorus requirements are completed as part of the choral requirements. Credit for non-performing duties such as assistant directing or assistant stage managing may be available with approval of opera/music theatre staff. Prerequisite: Audition (generally held during the first week and a half of classes in the fall).

CONSVTY 319 Opera Role Performance
Preparation, rehearsal and performance of a role in an opera or music theatre production at UMKC. Credit for performance as part of the ensemble/chorus may be received from this course after the two chorus requirements are completed as part of the choral requirements. Credit for non-performing duties such as assistant directing or assistant stage managing may be available with approval of opera/music theatre staff. Prerequisite: Audition (generally held during the first week and a half of classes in the fall).

CONSVTY 320 Music Theatre Role Performance
Preparation, rehearsal and performance of a role in an opera or music theatre production at UMKC. Credit for performance as part of the ensemble/chorus may be received from this course after the two chorus requirements are completed as part of the choral requirements. Credit for non-performing duties such as assistant direction or assistant stage managing may be available with approval of opera/music theatre staff. Prerequisite: Audition (generally held during the first week and a half of classes in the fall).

CONSVTY 320 Music Theatre Role Performance
Preparation, rehearsal and performance of a role in an opera or music theatre production at UMKC. Credit for performance as part of the ensemble/chorus may be received from this course after the two chorus requirements are completed as part of the choral requirements. Credit for non-performing duties such as assistant direction or assistant stage managing may be available with approval of opera/music theatre staff. Prerequisite: Audition (generally held during the first week and a half of classes in the fall).
CONSVTY 323 Form And Analysis I
Application of theoretical principles of analysis to Western Art music. Prerequisite: CONSVTY 221.

CONSVTY 325 Piano Pedagogy I
Instructional strategies for teaching the beginning piano student including methods, materials, repertoire, technique and the use of music technology. Various aspects of establishing and managing a piano studio will also be addressed.

CONSVTY 325A Piano Pedagogy - Supervised Teaching I
Supervised practicum designed to demonstrate lesson planning and activities for beginning students through the observation of experienced teachers and various supervised teaching experiences. Must be taken concurrently with CONS 325.

CONSVTY 325A Piano Pedagogy - Supervised Teaching I
Supervised practicum designed to demonstrate lesson planning and activities for beginning students through the observation of experienced teachers and various supervised teaching experiences. Must be taken concurrently with CONS 325.

CONSVTY 326 Piano Pedagogy II
Instructional strategies for teaching the intermediate and advanced piano student, including methods, materials, repertoire, technique, and the use of music technology. Prerequisite: CONS 325.

CONSVTY 326A Piano Pedagogy - Supervised Teaching II
Supervised practicum designed to demonstrate lesson planning and activities for students of various levels through observation of experienced teachers and various supervised teaching experiences must be taken concurrently with Cons 326. Prerequisite: Cons 325A.

CONSVTY 326A Piano Pedagogy - Supervised Teaching II
Supervised practicum designed to demonstrate lesson planning and activities for students of various levels through observation of experienced teachers and various supervised teaching experiences must be taken concurrently with Cons 326. Prerequisite: Cons 325A.

CONSVTY 329 Advanced Ear Training
Study of atonal and highly chromatic tonal aural problems, complex rhythms, and recognition of instruments. Prerequisite: CONSVTY 222 or CONSVTY 222B or equivalent. May be repeated for credit.

CONSVTY 329 Advanced Ear Training
Study of atonal and highly chromatic tonal aural problems, complex rhythms, and recognition of instruments. Prerequisite: CONSVTY 222 or CONSVTY 222B or equivalent. May be repeated for credit.

CONSVTY 330 Jazz Composition
This course encourages composers to work towards developing an individual writing style and controlling the melodic line in the Jazz idiom. It includes writing assignments, and end-of-the-semester writing projects that are performed by UMKC Jazz ensembles and/or top Kansas City professionals.

CONSVTY 331 Orchestration I
An introduction to the instruments of the symphony orchestra and rudiments of scoring. Classification of instruments and learning to write for all transposing instruments. Prerequisites: CONVSTY 222 or CONSVTY 222B or consent of an instructor or Music theory I-IV.

CONSVTY 331A Orchestration I
An introduction to the instruments of the symphony orchestra and rudiments of scoring. Meets concurrently with CONSVTY 331; the third credit hour is required for music composition and music theory majors. Prerequisites: CONSVTY 222 or CONSVTY 222B or consent of an instructor of Music Theory I-IV.

CONSVTY 333 Advanced Composition
Prerequisites: CONSVTY 222 or CONSVTY 222B and CONSVTY 234 or consent of the instructor. May be repeated for credit.

CONSVTY 335 Electronic Music Composition
CONSVTY 335 focuses on creating an original music composition in any style utilizing the full range of digital audio or MIDI hardware, software ad techniques available to the student. In addition to weekly meetings arranged with the instructor, 5-8 hours per week of studio time is required. Available each semester and may be repeated for credit. Prerequisite(s): CONSVTY 235 or CONSVTY 236 or consent of the instructor.
CONSVTY 351 History Of Music In Western Civilization I
A chronological study of music in Western civilization with emphasis on periods and styles from early times to the death of Bach. Outside listening required. Prerequisite: CONSVTY 150 and successful completion of Cons. 122 highly recommended, or by consent of the instructor.

CONSVTY 351WI History Of Music in Western Civilization I - Writing Intensive
George Santayana once reasoned that if you cannot remember the past, you are condemned to repeat it. If that is the case, then as music students you all must ask how the music of the past can inform and change the music you make and make you better musicians. This class examines selected works from Western musical history and explores the biographical, stylistic, and aesthetic issues they raise. It seeks to hone your analytical skills through knowledge of stylistic features while introducing you to musical debates that still rage today. Prerequisite: Must have a grade of “A” in CONSVTY 150, Completed English 110 & ENGLISH 225, & Pass the WEPT.

CONSVTY 352 History Of Music In Western Civilization II
A chronological study of music in Western civilization from 1750 to the present. Outside listening required. Prerequisite: CONSVTY. 351.

CONSVTY 352WI History Of Music In Western Civilization II - Writing Intensive
A chronological study of music in Western Civilization from 1750 to the present. Outside listening and writing projects required. Prerequisites: CONSVTY 150 Pass the WEPT GPA of 3.5 or higher Offered: Most semesters, at least once every academic year.

CONSVTY 353A History And Development Of Jazz I
History of Jazz from its beginning through the present, using recordings, films and musical examples. Emphasis on the major historical trends in Jazz, including Early Jazz, Ragtime, Dixieland, Swing, Bebop, Cool Jazz, Hard Bop, Free Jazz, Jazz-Rock Fusion and modern developments. This course makes use of the Marr Sound Archive, and is appropriate for all students throughout the UMKC Campus.

CONSVTY 353AWI History And Development Of Jazz II (WI)
This course aims to contextualize jazz within the musical culture of the twentieth century. It is designed to develop the students understanding of jazz from a writing and research perspective. This course concentrates on the lives, bands, and works of people who have been instrumental in the development of the various jazz styles. In-depth analysis of major jazz figures including Louis Armstrong, Duke Ellington, Count Basie, Charlie Parker, Dizzy Gillespie, Thelonious Monk, Clifford Brown, Sonny Rollins, John Coltrane, Miles Davis, Wayne Shorter, and many others. This course is most appropriate for Jazz Studies majors, and other conservatory students with some jazz background and knowledge of the fundamentals of music. This course makes use of the Marr sound Archive. Prerequisites: Conservatory 353A and approval of instructor.

CONSVTY 357 Choral Literature
Includes listening and analysis as they relate to programming and educational issues in choral ensemble setting. May be repeated for credit. Prerequisites: CONSVTY 380 or permission of instructor.

CONSVTY 358 Wind Band Literature and Lab
Designed for the student working with beginning and intermediate levels of wind/percussion instruments. Includes critical analysis and evaluation of literature selection as it relates to educational issues and programming in wind/percussion ensemble settings. Includes an off-campus course meeting with a community wind band rehearsal/performance setting providing opportunities realistic opportunities for observation and teaching. Prerequisites: Enrollment concurrent with CONSVTY 381; permission of faculty.

CONSVTY 358WI Wind Band Literature and Lab
Designed for the student working with beginning and intermediate levels of wind/percussion instruments. Includes critical analysis and evaluation of literature selection as it relates to educational issues and programming in wind/percussion ensemble settings. Includes an off-campus course meeting with a community wind band rehearsal/performance setting providing opportunities realistic opportunities for observation and teaching. Prerequisites: Enrollment concurrent with CONSVTY 381; permission of faculty.

CONSVTY 359 String Literature
Includes listening and analysis as they relate to programming and educational issues in string ensemble settings. May be repeated for credit. Prerequisites: CONSVTY 381 or permission of instructor.

CONSVTY 361 Piano Literature I (Pre-Classical)
A survey of the development of keyboard literature from the fourteenth century through the Baroque. Special attention given to the development of keyboard forms, performance practices, idiomatic styles, and stringed keyboard instruments that precede the classical era.
piano.

CONSVTY 361 Piano Literature I (Pre-Classical)
A survey of the development of keyboard literature from the fourteenth century through the Baroque. Special attention given to the development of keyboard forms, performance practices, idiomatic styles, and stringed keyboard instruments that precede the piano.

CONSVTY 362 Piano Literature II (Classical)
A survey through analysis, reading, listening, and performance of piano repertoire from 1750 (death of J.S. Bach) to 1828 (death of Schubert).

CONSVTY 368 Orchestral Literature for Trumpet
Intended to introduce students to the standard repertoire for orchestral trumpet; class meets once weekly for an hour. Students will be expected to prepare and play approximately a dozen works per semester, rotating parts in a full trumpet section.
Prerequisite: Permission of faculty

CONSVTY 370 Choral/Vocal Techniques
Laboratory applications of vocal pedagogy, ensemble rehearsal technique, literature selection, and performance practice. Students will participate in singing and observation activities in a large ensemble setting with an emphasis on critical analysis of technical and pedagogical issues. Prerequisites: CONSVTY 380 or permission of instructor.

CONSVTY 373A Instrumental Techniques Violin-Viola

CONSVTY 373B Instrumental Techniques Cello-Double Bass

CONSVTY 373C Instrumental Techniques Flute And Clarinet

CONSVTY 373D Instrumental Techniques Trumpet-Horn

CONSVTY 373E Instrumental Techniques Percussion

CONSVTY 373F Instrumental Techniques Oboe-Bassoon

CONSVTY 373G Instrumental Techniques Guitar

CONSVTY 373H Instrumental Techniques Trombone-Tuba
CONSVTY 373H Instrumental Techniques Trombone-Tuba

CONSVTY 373N Survey Of Wind And Percussion Instruments
An overview of basic wind and percussion instruments used in public school settings. Includes embouchure formation, hand position, sound production, and pedagogical issues encountered in beginning situations.

CONSVTY 373P Survey Of String Instruments
An overview of basic string instruments used in public school settings. Includes hand position, bowing, sound production, and pedagogical issues encountered in beginning situations.

CONSVTY 373R Strings Techniques Lab (for BME String Majors)
Designed for the student working with beginning and intermediate level string instrumentalists. The course will focus on the pedagogy of teaching strings in a lab setting. Includes critical analysis and evaluation of literature selection as it relates to educational issues string ensemble settings. This course is a lab setting. Students will be playing daily on secondary instruments.

CONSVTY 375A Special Percussion Methods For Music Therapy Students
Study of classroom and individual percussion techniques applicable to situations found in the field of music therapy. Prerequisites: None.

CONSVTY 375B Special Percussion Methods For Dance Students
A class of percussion techniques which stresses hand drumming skills and advanced rhythmic counting and analysis. Prerequisites: None.

CONSVTY 376 Collaborative Piano I
Study of collaborative techniques and vocal literature.

CONSVTY 377 Collaborative Piano II
Continuation of CONSVTY 376. Prerequisites: CONSVTY 376.

CONSVTY 378 Instrumental Ensemble Rehearsal Techniques & Lab
Laboratory applications of large instrumental ensemble (strings, winds, percussion) pedagogy, ensemble rehearsal technique, and performance practice. Students will participate in playing, observation, rehearsal activities in a large ensemble setting with an emphasis on critical analysis of technical pedagogical issues and ensemble performance preparation. Includes an off-campus course meeting. Prerequisites: CONSVTY 381, CONSVTY 358 and completion of large ensemble requirement or permission of instructor. Enrollment concurrent with CONSVTY 383.

CONSVTY 378 Instrumental Ensemble Rehearsal Techniques & Lab
Laboratory applications of large instrumental ensemble (strings, winds, percussion) pedagogy, ensemble rehearsal technique, and performance practice. Students will participate in playing, observation, rehearsal activities in a large ensemble setting with an emphasis on critical analysis of technical pedagogical issues and ensemble performance preparation. Includes an off-campus course meeting. Prerequisites: CONSVTY 381, CONSVTY 358 and completion of large ensemble requirement or permission of instructor. Enrollment concurrent with CONSVTY 383.

CONSVTY 378 Instrumental Ensemble Rehearsal Techniques & Lab
Laboratory applications of large instrumental ensemble (strings, winds, percussion) pedagogy, ensemble rehearsal technique, and performance practice. Students will participate in playing, observation, rehearsal activities in a large ensemble setting with an emphasis on critical analysis of technical pedagogical issues and ensemble performance preparation. Includes an off-campus course meeting. Prerequisites: CONSVTY 381, CONSVTY 358 and completion of large ensemble requirement or permission of instructor. Enrollment concurrent with CONSVTY 383.

CONSVTY 378L Instrumental Ensemble Rehearsal Lab
Laboratory applications of wind/percussion pedagogy, ensemble rehearsal technique, literature selection, and performance practice. Students will participate in playing, observation, and rehearsal activities in a large ensemble setting with an emphasis on critical analysis of technical pedagogical issues and ensemble performance preparation. This course may meet off-campus. Prerequisites: Cons 381, 358, and completion of large ensemble requirement or permission of instructor. Enrollment Concurrent with Cons 383 and 378.

CONSVTY 379 String Ensemble Techniques
Laboratory applications of string pedagogy, ensemble rehearsal technique, literature selection, and performance practice. Students will participate in playing and observation activities in a large ensemble setting with an emphasis on critical analysis of technical and pedagogical issues. Prerequisites: CONSVTY 381 or permission of instructor. Registration concurrent with final
semester of large ensemble requirement.

**CONSVTY 380** Basic Conducting - Choral
A study of the basic techniques of all rhythms, patterns, subdivision of beats, dynamics, starting, stopping, and giving cues through conducting in class. Elementary study of the score as to form and harmonic content will be discussed. Prerequisite: CONSVTY 222A or CONSVTY 222B.

**CONSVTY 381** Basic Conducting - Instrumental
A study of the basic techniques of all rhythms, patterns, subdivision of beats, dynamics, starting, stopping, and giving cues through conducting in class. Elementary study of the score as to form and harmonic intent will be discussed. Prerequisite: CONSVTY 222A or CONSVTY 222B.

**CONSVTY 382** Choral Conducting
A study of choral techniques including voice tryouts, placement, attack, release, blend, vocal development, diction, and rehearsal techniques through actual experience of conducting in class. Prerequisite: CONSVTY 380. Mus. Ed.-Choral majors must take concurrently with CONSVTY 387.

**CONSVTY 383** Instrumental Conducting
A study of instrumental conducting techniques through actual conducting situations in instrumental groups. Primary objective will be the study of instrumental rehearsal techniques. Prerequisite: CONSVTY 381. Mus. Ed.-Instrumental majors must take concurrently with CONSVTY 386.

**CONSVTY 385** Elementary Music Methods
Basic principles of curriculum planning for music education, investigation of current methods and approaches, and practical teaching experience in laboratory setting. For music majors and non-majors who have extensive musical backgrounds. Prerequisites: CONSVTY 222A or CONSVTY 222B and CONSVTY 411C. Permission of Faculty and must be taken concurrently with 411C.

**CONSVTY 386** Secondary Music Methods - Instrumental
The organization, scheduling and feeder-system techniques of beginning band and orchestral programs through high-school level instruction. Areas of study will include curriculum, pedagogical techniques, library facilities, bidding procedures, basic instrument techniques. Prerequisites: Permission of Faculty and must be taken concurrently with CONSVTY 383 and CONSVTY 411B.

**CONSVTY 387** Secondary Music Methods - Choral
The organization of junior and senior high school choral classes to include methods, materials and program building. Prerequisites: Permission of Faculty and must be taken concurrently with CONSVTY 382 and CONSVTY 411B.

**CONSVTY 391** Basic Piano Technology
Introduces the art of tuning by ear, including the discussion of historical temperaments that preceded equal temperament: explores the action mechanism and its influence on the production of musical tone. Prerequisite: CONSVTY 122 or consent of the instructor.

**CONSVTY 391** Basic Piano Technology
Introduces the art of tuning by ear, including the discussion of historical temperaments that preceded equal temperament: explores the action mechanism and its influence on the production of musical tone. Prerequisite: CONSVTY 122 or consent of the instructor.

**CONSVTY 404** Jazz Improvisation Iv
This class is a continuation of Jazz Improvisation III. This course features in-depth analyses of the blues and free improvisation focusing on rhythm changes and bi-tonal/polytonal chords. Course includes an in-depth analysis of styles from Dixieland to contemporary jazz. A strong emphasis is placed on solo construction and development of individual styles. Prerequisite: CONSVTY 304 Jazz Improvisation III or consent of the instructor.

**CONSVTY 405** Introductory Foundations In The Arts
The course will concentrate on the development of a philosophical, historical and social model to assist in understanding the complexities, strengths and problems of the arts in the context of present day education.

**CONSVTY 406** Influence Of Music On Behavior
Explores the physiological, psychological and social influences of music on behavior. Although for music therapy practice it may also be of interest to other music majors and/or allied health professionals. Prerequisite: Completion of applied music 202 (2 hours) required of music majors. Completion of CONSVTY 128, CONSVTY 130 & CONSVTY 180 for music therapy majors or
CONSVTY 407 Audio Intern Program
Practical recording experience interning with Conservatory recording and music production labs with one lecture weekly. Prerequisite: consent of the instructor.

CONSVTY 408 Music In Therapy: Adults
Lecture and clinical demonstration of theory and practice of music therapy with adult clients. Prerequisites: Must take concurrently with CONSVTY 210E, Clinical Experience V.

CONSVTY 409 Music In Therapy: Children
Lecture and clinical demonstrations of theory and practice of music therapy with children. Prerequisites: Must take concurrently with CONSVTY 210F, Clinical Experience VI.

CONSVTY 410 Internship
1040 hours of supervised clinical experience at a site approved by the American Music Therapy Association, to be taken after all other course work for the music therapy degree is completed.

CONSVTY 411A Field Experience In Music
To introduce music students to a critical examination of the complex nature of teaching, learning, children, and the music classroom/ensemble setting. Students will be expected to spend 30 hours observing, participating, planning and teaching in an assigned music classroom environment during the semester. Prerequisites: Permission of faculty and must be taken concurrently with CONSVTY 405.

CONSVTY 411B Field Experience In Music
To introduce music students to secondary school settings and further develop observation, planning and teaching skills. Students will be expected to spend 30 hours in a middle/junior high school music classroom and 30 hours in a high school music classroom for a total of 60 hours during the semester. To be taken concurrently with CONSVTY 386 OR CONSVTY 387. Prerequisites: CONSVTY 411A or permission of faculty

CONSVTY 411C Field Experience In Music
To introduce music students to elementary school music settings and continue to refine observation, planning and teaching skills in secondary school music settings. Students will be expected to spend 30 hours in an elementary school music classroom and 30 hours in either a middle school/junior high or high school music classroom. To be taken concurrently with CONSVTY 385. Prerequisites: CONSVTY 411B or permission of faculty

CONSVTY 412A Student Teaching Music In Elementary School
Observation, planning and teaching in an elementary music classroom setting. Students will be expected to spend a minimum of seven weeks teaching full-time under supervision. Prerequisite: CONSVTY 411C
CONSVTY 412B  Student Teaching Music In Secondary School
Observation, planning and teaching in a middle school/junior high or high school music classroom setting. Students will be expected to spend a minimum of seven weeks teaching full-time under supervision. Prerequisite: CONSVTY 411C

CONSVTY 417 Opera Workshop
Introduction to opera and opera performance techniques. Class will include performance of opera scenes. Prerequisite: consent of the instructor. May be repeated for credit.

CONSVTY 417 Opera Workshop
Introduction to opera and opera performance techniques. Class will include performance of opera scenes. Prerequisite: consent of the instructor. May be repeated for credit.

CONSVTY 417A Singing/Acting Training for Music Theatre
Specific training especially tailored for incoming undergraduate BA in Music/Theatre Concentration students and others interested in Introductory acting and singing/acting techniques. Recommended for Freshman or Sophomore performance track students. Prerequisite: Admission into the BA in Music/Theatre Concentration program OR permission of Instructor. An audition may be required.

CONSVTY 417A Singing/Acting Training for Music Theatre
Specific training especially tailored for incoming undergraduate BA in Music/Theatre Concentration students and others interested in Introductory acting and singing/acting techniques. Recommended for Freshman or Sophomore performance track students. Prerequisite: Admission into the BA in Music/Theatre Concentration program OR permission of Instructor. An audition may be required.

CONSVTY 417B Singing/Acting Training for Opera
Specific training especially tailored for undergraduate Vocal Performance majors and others interested in introduction Singing/Acting techniques for opera. Recommended for singers in their sophomore or junior years. This course IS NOT OPEN to Freshmen. Prerequisite: Admission into the BM vocal performance degree program OR permission of Instructor. An audition may be required.

CONSVTY 417B Singing/Acting Training for Opera
Specific training especially tailored for undergraduate Vocal Performance majors and others interested in introduction Singing/Acting techniques for opera. Recommended for singers in their sophomore or junior years. This course IS NOT OPEN to Freshmen. Prerequisite: Admission into the BM vocal performance degree program OR permission of Instructor. An audition may be required.

CONSVTY 417C Community Engagement Opera
Preparation, rehearsal and performance of an outreach opera. Offerings range from a work specifically for children, a cut-down version of a full-length opera, and occasional full-length operas in areas of repertoire not featured in the main-stage opera season. Performed off campus in conjunction with the student opera-lovers organization, Bravi. Prerequisite: Audition (Generally held during the first two weeks of the fall Semester).

CONSVTY 417C Community Engagement Opera
Preparation, rehearsal and performance of an outreach opera. Offerings range from a work specifically for children, a cut-down version of a full-length opera, and occasional full-length operas in areas of repertoire not featured in the main-stage opera season. Performed off campus in conjunction with the student opera-lovers organization, Bravi. Prerequisite: Audition (Generally held during the first two weeks of the fall Semester).

CONSVTY 417D Music Theatre Review/Scenes
Preparation, rehearsal and performance of an existing or original review and/or scene work. Productions will vary from year to year. Existing works maybe performed if and only if the music theatre budget allows for proper licensing, rights and rentals. Performances of final production projects may occur off campus. Prerequisite: Successful completion of CONSVTY 417A Singer/Actor Techniques for Music Theatre or permission of instructor. (Audition may be required.)

CONSVTY 417D Music Theatre Review/Scenes
Preparation, rehearsal and performance of an existing or original review and/or scene work. Productions will vary from year to year. Existing works maybe performed if and only if the music theatre budget allows for proper licensing, rights and rentals. Performances of final production projects may occur off campus. Prerequisite: Successful completion of CONSVTY 417A
Singer/Actor Techniques for Music Theatre or permission of instructor. (Audition may be required.)

**CONSVTY 417E Scene Study**
Preparation, rehearsal and performance of scenes from opera, operetta and music theatre. Scenes will be determined and assigned based on student's needs and development. One-act operas may also occasionally be produced in this class. Prerequisite: Permission of Instructor. Audition may be required.

**CONSVTY 417E Scene Study**
Preparation, rehearsal and performance of scenes from opera, operetta and music theatre. Scenes will be determined and assigned based on student's needs and development. One-act operas may also occasionally be produced in this class. Prerequisite: Permission of Instructor. Audition may be required.

**CONSVTY 417F Advanced Opera Workshop**
Singer/Actor techniques, dramatic preparation of arias, audition techniques, recitative and role study. Prerequisite: Undergraduates: Successful completion of CONSVTY 417B and permission of Voice teacher highly recommended, as several areas and a role study project will be required for work in class.

**CONSVTY 417F Advanced Opera Workshop**
Singer/Actor techniques, dramatic preparation of arias, audition techniques, recitative and role study. Prerequisite: Undergraduates: Successful completion of CONSVTY 417B and permission of Voice teacher highly recommended, as several areas and a role study project will be required for work in class.

**CONSVTY 421A Music Theory Review For Graduate Students**
An intensive review with emphasis placed on analysis. Open to graduate students only. MAY NOT BE USED ON A PLANNED PROGRAM.

**CONSVTY 421A Music Theory Review For Graduate Students**
An intensive review with emphasis placed on analysis. Open to graduate students only. MAY NOT BE USED ON A PLANNED PROGRAM.

**CONSVTY 421B Ear Training And Solfege For Graduate Students**
An intensive review of ear training and sight singing. Open to graduate students only. MAY NOT BE USED ON A PLANNED PROGRAM.

**CONSVTY 421B Ear Training And Solfege For Graduate Students**
An intensive review of ear training and sight singing. Open to graduate students only. MAY NOT BE USED ON A PLANNED PROGRAM.

**CONSVTY 422A Music History Review (early)**
Graduate-level review of music in Western civilization from antiquity to 1750. Outside listening is required. Offered: Fall and Winter.

**CONSVTY 422B Music History Review (Late)**
Graduate-level review of music in Western civilization from 1750 to the present. Outside listening is required. Offered Fall and Winter.

**CONSVTY 422C Music History Review**
Graduate-level review of music in Western civilization from antiquity to the present. Outside listening is required. Offered: Fall.

**CONSVTY 423 Business Jazz And Commercial Music**
An introduction to the various elements of the music industry, including production, marketing, unions, contracts, broadcasting, licensing agreements and copyrights.

**CONSVTY 423 Business Jazz And Commercial Music**
An introduction to the various elements of the music industry, including production, marketing, unions, contracts, broadcasting, licensing agreements and copyrights.

**CONSVTY 424 Acoustics**
Study of the propagation of sound, the psychology and physiology of hearing, the acoustics of instruments, and of rooms, and tuning systems. Available for graduate credit.
CONSVTY 425A Arranging For Choral Groups
Practice in transcribing vocal music of the current pop idiom. Analysis and writing in contemporary harmonic idioms. Stylistic analysis of solo and choral writing in operettas and musical plays. Scoring for mixed voices, men's voices, and women's voices. Prerequisite: CONSVTY 222A or CONSVTY 222B.

CONSVTY 425B Arranging Instrumental
Prerequisite: CONSVTY 222 or CONSVTY 222B or recommendation of an instructor of Music Theory I-IV.

CONSVTY 426B Jazz Arranging For Small Ensembles
This course will teach the art of Calligraphy as well as the techniques of arranging and orchestration for small jazz ensembles for up to five horns. The course will also include an in-depth study of basic voicings, instrumental sonorities, and some extended forms using intensive listening and score study. UMKC combos, or top Kansas City professionals, will perform final assignments. Prerequisite: CONSVTY 222 Music Theory IV or consent of the instructor.

CONSVTY 426D Jazz Arranging For Big Bands
This course is a continuation of Jazz Arranging for small ensembles. It will cover the basics of arranging and orchestration techniques for big bands. It includes an in-depth study of basic voicing and instrumental sonorities using intensive listening and score study. The students will have a chance to hear their final arrangements performed at the end of the semester by the Concert Jazz Band. Prerequisite: CONSVTY 426B

CONSVTY 427 18th Century Counterpoint I
Analysis and writing in 18th century style and forms including canon, invention and fugue. Prerequisite: CONSVTY 222 or CONSVTY 222B or recommendation of an instructor of Music Theory I-IV.

CONSVTY 428 Contemporary Harmonic/Contrapuntal Style
Analysis and writing in contemporary styles. Prerequisite: CONSVTY 222 or recommendation of an instructor of Music Theory I-IV

CONSVTY 431 Orchestration II
A detailed study of the scores of major orchestral and wind ensemble works, plus the application of orchestrational concepts in the creation or orchestration of an original piece of music. Prerequisite: CONSVTY 331A or consent of the instructor.

CONSVTY 433 Composition Recital
Preparation and performance of the student's original compositions at one or more concerts sponsored by UMKC Conservatory of Music, with a total of 50 to 60 minutes performance time. Prerequisite: 6 hours of CONSVTY 333, approval of major status by the Composition Division, and consent of the instructor.

CONSVTY 433 Composition Recital
Preparation and performance of the student's original compositions at one or more concerts sponsored by UMKC Conservatory of Music, with a total of 50 to 60 minutes performance time. Prerequisite: 6 hours of CONSVTY 333, approval of major status by the Composition Division, and consent of the instructor.

CONSVTY 434CC The Practice and Study of Creativity
A team-taught, multidisciplinary cluster course for undergraduate students that fosters awareness of the nature and power of students' creativity. Approximately one third of the class covers current literature on the creative process in general and in the arts. The remainder of the class utilizes the arts as a catalyst for students to design and implement creative group and individual projects that foster communication, remove barriers to creativity and combine creativity with discipline toward a common result. There are neither prerequisites nor expectations of arts-related abilities. The ideal class consists of 4-6 students from each of 3
are - Arts;Science/Social Science/Business/Law; and Humanities/Education/General Studies.

CONSVTY 435 Psychological Foundations Of Music
The study of the psychological aspects of music including perception, cognition, affect, and preference. An introduction to measurement and experimental research including statistical techniques. Prerequisite: CONSVTY 260 or permission of instructor.

CONSVTY 437 Computer Literacy For Musicians
Computing skills for the music teacher. Study of the computer as a tool for music majors who will teach in public school music classes, direct ensembles, or teach at the college or university level. Hands-on practice with file creation and editing, graphics and character set generation, data analysis, preparation of computer based instruction, and data retrieval. For upper level undergraduate and graduate students. Prerequisites: Cons 110 Keyboard Skills I or permission of instructor.

CONSVTY 438 Creative Collaboration: Ideas and Strategies
Creative Collaboration: Ideas and Strategies investigates the history of collaboration in the arts since the turn of the 20th century. While case studies are drawn from the arts, students from any discipline and field will explore creative collaboration together. The goal of the class is to create a large-scale work in multidiscipline groups. Groups will vary depending on enrollments, but thinking outside the box and full participation regardless of individual discipline is required. Course is open to students in any field and discipline. Prerequisites: none.

CONSVTY 449 Introduction To Arts Administration
This course is designed to be an overview of topics of importance to arts organizations including organizational culture, leadership, marketing, media relations, fundraising, facilities management, and audience building. Students will review current literature in this area and develop a project related to their particular area of interest.

CONSVTY 449A Arts Administration Practicum
This course is designed to give practical experience for students in the Introduction to Arts Administration class. The student will receive a placement with an arts organization to be determined by the instructor.

CONSVTY 450 Music And Film
Designed for the general university student, this course will survey the use of music in cinema. It will include sections on music, technology, the film medium and the various ways in which music adds to the cinematic experience. Music majors may enroll for elective credit. No prerequisite.

CONSVTY 457 Vocal Literature I
Literature for the solo voice. A course covering the literature from 1600 to present times, illustrated by recordings and members of the class and the instructor. Prerequisite: upper division standing and consent of the instructor. Requirement for B.M. voice majors.

CONSVTY 458 Vocal Literature II
A continuation of CONSVTY 457.

CONSVTY 459 Advanced Choral Literature
A survey of choral literature including the music of all periods, both sacred and secular, in both small and large forms. May be repeated for credit.

CONSVTY 460 Organ Literature I
A survey of organ music from the 15th century through 1750.

CONSVTY 461 Piano Literature III (Romantic)
A survey through analysis, reading, listening, and performance of piano repertoire from the Romantic Period to the early 20th Century.

CONSVTY 462 Piano Literature IV (Post-Romantic)
A survey through analysis, reading, listening, and performance of piano repertoire from the early 20th Century to the present day.

CONSVTY 464A Wind And Percussion Literature Percussion
A study of solo and ensemble literature for percussion.

CONSVTY 469 Organ Literature II
A survey of organ music from 1750 to the present.
CONSVTY 470A Introduction To Pedagogy And Literature Woodwinds
A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

CONSVTY 470B Introduction To Pedagogy And Literature Brass
A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

CONSVTY 470C Introduction To Pedagogy And Literature Percussion
A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

CONSVTY 470D Introduction To String Literature And Pedagogy
A study of teaching techniques and materials and solo and ensemble literature. Senior status required.

CONSVTY 471 Jazz/Commercial Music Pedagogy
This course is designed to develop skills in the teaching of jazz and commercial music. Students will be exposed to a variety of materials, techniques and philosophies and trained in various techniques of rehearsing and conducting jazz ensembles, including the study of scores and recordings of different styles and rehearsal of the Conservatory's jazz ensembles. Includes an emphasis on structuring jazz and studio music curriculum at the College level. Prerequisite: CONSVTY 381 Basic Conducting.

CONSVTY 476 Collaborative Piano III
Study of collaborative techniques and instrumental literature. Prerequisites 377.

CONSVTY 477 Collaborative Piano IV
Continuation of CONSVTY 476. Prerequisites: CONSVTY 476

CONSVTY 483 Advanced Instrumental Conducting
A review of techniques and musical styles of literature for all levels and all media through conducting in class.

CONSVTY 490 Independent Study
Intensive reading, research projects, creative work, or special performance in the student's major field, selected by the student in consultation with the appropriate faculty. Prerequisite: Consent of the instructor.

CONSVTY 491B Pedagogical Practices I Voice

CONSVTY 491C Pedagogical Practices I Organ

CONSVTY 491D Pedagogical Practices I Strings

CONSVTY 491K Pedagogical Practices I Theory

CONSVTY 491M Pedagogical Practices I General
The course will address a variety of aspects of the human relationships in music teaching/learning settings. Topics will include teacher/student relationships, large group dynamics (ensemble), one-on-one interaction (studio), time management, performance anxiety, productive practice, and the observation and assessment of musical behavior. A field observation component is included.

CONSVTY 492B Pedagogical Practices II Voice
A laboratory experience that includes teaching applied voice in preparation for an end of semester concert experience. The course content includes introduction to skill sets required for teaching applied voice and applied voice studio budget and organization. Prerequisite: 491B Pedagogical Practices I Voice

CONSVTY 492C Pedagogical Practices II Organ
CONSVTY 492D Pedagogical Practices II Strings

CONSVTY 494 Performance Styles
A practical approach to the music of the Medieval, Renaissance, Baroque, Early Classical and Contemporary eras through performance. May be repeated for credit. Prerequisites: Completion of CONSVTY 122, audition and consent of the instructor.

CONSVTY 497 Seminar-Workshop In Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497AM American Music Company Choral Reading Sessions

CONSVTY 497AR Seminar-Workshop In Music

CONSVTY 497AT Seminar-Workshop In Music

CONSVTY 497BR Seminar-Workshop In Music

CONSVTY 497CD Seminar Workshop in Music

CONSVTY 497CE Seminar-Workshop In Music

CONSVTY 497CP Seminar - Workshop in Music

CONSVTY 497CR Seminar - Workshop in Music

CONSVTY 497EP Seminar-Workshop In Music

CONSVTY 497FF Seminar-Workshop In Music

CONSVTY 497FT Seminar-Workshop In Music

CONSVTY 497GA Seminar-Workshop In Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497GC Seminar-Workshop In Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497GM Seminar - Workshop in Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497HA Seminar Workshop in Music

CONSVTY 497HB Seminar Workshop in Music

CONSVTY 497HT Seminar Workshop in Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.
CONSVTY 497IN Seminar-Workshop In Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497JB Seminar-Workshop In Music: Music History Review (Late)

CONSVTY 497JD Seminar - Workshop in Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497JI Seminar-Workshop In Music

CONSVTY 497JK Seminar-Workshop in Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497JKI Seminar-Workshop in Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497JP Seminar Workshop in Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497LM Seminar-Workshop In Music

CONSVTY 497OB Seminar-Workshop in Music

CONSVTY 497OU Seminar-Workshop In Music

CONSVTY 497PC Seminar-Workshop In Music

CONSVTY 497PH Seminar Workshop In Music

CONSVTY 497PI SEMINAR WKSHP IN MUSIC

CONSVTY 497PL Seminar Workshop In Music

CONSVTY 497PO Seminar Workshop In Music

CONSVTY 497PP Seminar Workshop In Music

CONSVTY 497RT Seminar/Workshop In Music

CONSVTY 497RX Seminar - Workshop in Music

CONSVTY 497SA Seminar-Workshop In Music

CONSVTY 497SI Seminar-Workshop In Music
CONSVTY 497ST Seminar Workshop-In Music
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

CONSVTY 497SU Seminar-Workshop In Music

CONSVTY 497SV Seminar-Workshop In Music

CONSVTY 497TE Orff Schulwerk Level I & II

CONSVTY 497WE Seminar-Workshop In Music

CONSVTY 497WLR Seminar Workshop in Music

CONSVTY 497XCC Seminar Workshop in Music

CONSVTY 498 Research Problems
Individual study under the direction of a faculty adviser, leading to the writing of a formal paper. A public, non-graded presentation of the paper with performance examples is required. Prerequisites: None.

CONSVTY 498 Research Problems
Individual study under the direction of a faculty adviser, leading to the writing of a formal paper. A public, non-graded presentation of the paper with performance examples is required. Prerequisites: None.

Bassoon (BASSOON)
BASSOON 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

BASSOON 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

BASSOON 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

BASSOON 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

BASSOON 101 Freshman Bassoon I

BASSOON 102 Freshman Bassoon II

BASSOON 201 Sophomore Bassoon I

BASSOON 202 Sophomore Bassoon II

BASSOON 301 Junior Bassoon I
BASSOON 302 Junior Bassoon II

BASSOON 401 Senior Bassoon I

BASSOON 402 Senior Bassoon II

Cello (CELLO)

CELO 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

CELO 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

CELO 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

CELO 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

CELO 101 Freshman Cello I

CELO 102 Freshman Cello II

CELO 201 Sophomore Cello I

CELO 202 Sophomore Cello II

CELO 301 Junior Cello I

CELO 302 Junior Cello II

CELO 401 Senior Cello I

CELO 402 Senior Cello II

Clarinet (CLARINET)

CLARINET 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

CLARINET 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.
instructor.

**CLARINET 100C** Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

**CLARINET 100D** Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

**CLARINET 101** Freshman Clarinet I

**CLARINET 102** Freshman Clarinet II

**CLARINET 201** Sophomore Clarinet I

**CLARINET 202** Sophomore Clarinet II

**CLARINET 301** Junior Clarinet I

**CLARINET 302** Junior Clarinet II

**CLARINET 401** Senior Clarinet I

**CLARINET 402** Senior Clarinet II

**Dance (DANCE)**

**DANCE 106** Computer Technology for Dance
This course will not only give basic computer knowledge but will give students the tools to conceptualize movement which is then integrated into choreographic motifs and sequences in an easy-to-use 3D environment. The students will use these tools to create choreography and to experiment with interdisciplinary arts and dance technology projects that will be implemented into the Advanced Composition course. Prerequisite: DANCE 218A Composition I.

**DANCE 107** Dance Production I
A study of the fundamentals of dance production including sound design and recording techniques, video and video editing, lighting design for dance, stage make-up, and costume design and construction. Laboratory projects will be coordinated with actual dance productions.

**DANCE 108** Dance Production II
Continuation of DANCE 107.

**DANCE 140A** Analysis Of Movement For The Dance I
A study of the structure of classical ballet steps and movements including basic anatomy, vocabulary and aesthetics of ballet. This course will also present a comparison of ballet training systems. Restricted to dance majors.

**DANCE 140B** Analysis Of Movement For The Dance II
Continuation of DANCE 140A, exploring and analyzing the fundamental structure of modern dance technique. The techniques of Lester Horton and Martha Graham will be examined.

**DANCE 141B** Ballet Technique And Theory I
Fundamentals of technique of classical ballet at the intermediate level with attention given to strengthening, stretching, anatomical alignment, and developing the ballet aesthetic. This course includes pointe work. Classes meet M, T, Th, F for 1.5 hours. Non-Majors by audition.
DANCE 141B Ballet Technique And Theory I
Fundamentals of technique of classical ballet at the intermediate level with attention given to strengthening, stretching, anatomical alignment, and developing the ballet aesthetic. This course includes pointe work. Classes meet M, T, Th, F for 1.5 hours. Non-Majors by audition.

DANCE 141M Modern Dance Technique And Theory I
This intermediate level dance course is based on the technique and theory of Lester Horton and fundamental elements of Martha Graham. Designed to fortify, stretch, and strengthen the body, the technique is codified into a series of studies designed to cover a wide range of movement vocabulary. Classes meet M, T, Th, F for 1.5 hours. Non-Majors by audition.

DANCE 141M Modern Dance Technique And Theory I
This intermediate level dance course is based on the technique and theory of Lester Horton and fundamental elements of Martha Graham. Designed to fortify, stretch, and strengthen the body, the technique is codified into a series of studies designed to cover a wide range of movement vocabulary. Classes meet M, T, Th, F for 1.5 hours. Non-Majors by audition.

DANCE 142B Ballet Technique And Theory II
Continuation of DANCE 141B.

DANCE 142B Ballet Technique And Theory II
Continuation of DANCE 141B.

DANCE 142M Modern Dance Technique And Theory II
Continuation of Dance 141M.

DANCE 142M Modern Dance Technique And Theory II
Continuation of Dance 141M.

DANCE 213C Men's Class I
This course is designed to meet the needs of the male dancer and will focus on developing the technique, strength, and agility needed for a professional career.

DANCE 213C Men's Class I
This course is designed to meet the needs of the male dancer and will focus on developing the technique, strength, and agility needed for a professional career.

DANCE 213D Men's Class II
Continuation of DANCE 213C.

DANCE 213D Men's Class II
Continuation of DANCE 213C.

DANCE 217A Improvisation I
An introduction to the use of improvisation as a method of discovery. Through structured choreographic problem-solving and creative responses to given movement problems, dancers will explore the elements of time, space, energy, and force learning the basic skills needed for dance composition. Restricted to Dance majors.

DANCE 217A Improvisation I
An introduction to the use of improvisation as a method of discovery. Through structured choreographic problem-solving and creative responses to given movement problems, dancers will explore the elements of time, space, energy, and force learning the basic skills needed for dance composition. Restricted to Dance majors.

DANCE 218A Composition II
An introduction to the fundamentals of choreography, including the development of dance compositions through the exploration and definition of specific studies, including floor design, shape design, motion design, and time design. Restricted to dance majors. Prerequisite: Dance 217A Restrictions: Dance majors only

DANCE 218B Composition III
An introduction to the fundamentals of choreography, including the development of dance compositions through the exploration and definition of specific studies, including floor design, shape design, motion design, and time design. Restricted to dance majors. Prerequisite: Dance 217A Restrictions: Dance majors only
DANCE 218B Composition III
An introduction to the fundamentals of choreography, including the development of dance compositions through the exploration and definition of specific studies, including floor design, shape design, motion design, and time design. Restricted to dance majors. Prerequisite: Dance 217A Restrictions: Dance majors only

DANCE 241B Ballet Technique And Theory III
Continuation of DANCE 142B at the intermediate/advanced level including pointe. Restricted to dance majors.

DANCE 241B Ballet Technique And Theory III
Continuation of DANCE 142B at the intermediate/advanced level including pointe. Restricted to dance majors.

DANCE 241M Modern Dance Technique And Theory III
Continuation of DANCE 142M, on the intermediate/advanced level. Restricted to dance majors.

DANCE 241M Modern Dance Technique And Theory III
Continuation of DANCE 142M, on the intermediate/advanced level. Restricted to dance majors.

DANCE 242B Ballet Technique And Theory Iv
Continuation of DANCE 241B, at the intermediate/advanced level including pointe work.

DANCE 242B Ballet Technique And Theory Iv
Continuation of DANCE 241B, at the intermediate/advanced level including pointe work.

DANCE 242M Modern Technique And Theory Iv
Continuation of DANCE 142M, on the intermediate/advanced level.

DANCE 242M Modern Technique And Theory Iv
Continuation of DANCE 142M, on the intermediate/advanced level.

DANCE 250 Labanotation I
An introduction to basic theory and elementary skills of labanotation.

DANCE 260 Jazz I
A study of Western Theatrical Dance focusing on Jazz and Afrp-Caribbean based forms.

DANCE 260 Jazz I
A study of Western Theatrical Dance focusing on Jazz and Afrp-Caribbean based forms.

DANCE 261 Jazz II
Continuation of DANCE 260 with a more in depth study of Western Theatrical Dance focusing on Jazz and Afro-Caribbean based dance forms.

DANCE 261 Jazz II
Continuation of DANCE 260 with a more in depth study of Western Theatrical Dance focusing on Jazz and Afro-Caribbean based dance forms.

DANCE 301 Advanced Movement Analysis For Dancers
A study of the body which relates specifically to the needs of dancers. Emphasis is placed upon an understanding of the skeletal system, the muscular system, their specific importance to dance technique, and dance injuries and prevention. Prerequisites: Dance major.

DANCE 302 Fundamentals Of Body Alignment
An introduction to the fundamentals of body alignment, including therapeutic exercises which focus on muscular imbalances and injury prevention. Emphasis is placed upon developing total body strength and flexibility. Required for dance majors or by permission of instructor. Prerequisite: DANCE 301.

DANCE 302 Fundamentals Of Body Alignment
An introduction to the fundamentals of body alignment, including therapeutic exercises which focus on muscular imbalances and injury prevention. Emphasis is placed upon developing total body strength and flexibility. Required for dance majors or by permission of instructor. Prerequisite: DANCE 301.
DANCE 303 Pilates
A non-impact body conditioning method based on principles of abdominal and scapular stabilization. Introduction to the essential and intermediate mat work, which consists of non-weight bearing exercises. Designed to give the student an understanding of the principles and muscular emphasis behind the Pilates method. Proper alignment, full range of motion, and patterned breathing will be emphasized. Prerequisite: DANCE 301 and DANCE 302

DANCE 303 Pilates
A non-impact body conditioning method based on principles of abdominal and scapular stabilization. Introduction to the essential and intermediate mat work, which consists of non-weight bearing exercises. Designed to give the student an understanding of the principles and muscular emphasis behind the Pilates method. Proper alignment, full range of motion, and patterned breathing will be emphasized. Prerequisite: DANCE 301 and DANCE 302

DANCE 305 History Of Dance I
A study of the development of Western theatrical dance forms, from its roots in the European court through the 20th century. Beginning with a brief overview of "early dance," emphasis will be placed on the study of Renaissance theatre spectacles to the rise of the professional dancer culminating with the 20th century contemporary ballet. This course includes outside reading and writing intensive requirements.

DANCE 306 History Of Dance II
Continuation of DANCE 305 exploring the development of dance as a 20th century Western theatre dance form. Development of modern dance, modern dance pioneers, modern dance development in Europe, African-American contribution to modern dance, modern dance influence on the ballet and the Avant-Garde and Post Modern movements will be studied. Outside reading and writing intensive requirements included.

DANCE 309B Company
A repertory company comprised of dance majors, selected guest artists and dance faculty for the preparation and public performance of choreographic works, concerts and lecture/demonstrations, and Great Works projects directed by dance faculty. Restricted to dance majors.

DANCE 309B Company
A repertory company comprised of dance majors, selected guest artists and dance faculty for the preparation and public performance of choreographic works, concerts and lecture/demonstrations, and Great Works projects directed by dance faculty. Restricted to dance majors.

DANCE 313A Partnering/Pas De Deux I
This course is designed to meet the needs of the 300/400 level ballet student and will teach the elementary skills of partnering such as turns, lifts, promenades, and balances. Prerequisites: DANCE 341B Ballet Technique and Theory V or higher.

DANCE 313A Partnering/Pas De Deux I
This course is designed to meet the needs of the 300/400 level ballet student and will teach the elementary skills of partnering such as turns, lifts, promenades, and balances. Prerequisites: DANCE 341B Ballet Technique and Theory V or higher.

DANCE 313B Partnering/Pas De Deux II
Continuation of DANCE 313A. Prerequisites: DANCE 341B Ballet Technique and Theory V or higher.

DANCE 313B Partnering/Pas De Deux II
Continuation of DANCE 313A. Prerequisites: DANCE 341B Ballet Technique and Theory V or higher.

DANCE 319A Composition IV
An intermediate course in Dance Composition focusing on choreographic clarity and intent. Topics such as abstraction, motif and development, and prop and costumes will be explored. Prerequisite: DANCE 218B.

DANCE 319A Composition IV
An intermediate course in Dance Composition focusing on choreographic clarity and intent. Topics such as abstraction, motif and development, and prop and costumes will be explored. Prerequisite: DANCE 218B.

DANCE 319B Advanced Choreographic Design
An intermediate course in Dance Composition focusing on choreographic clarity and intent. Topics such as abstraction, motif and development, and prop and costumes will be explored. Prerequisite: DANCE 218B.

DANCE 319B Advanced Choreographic Design
An intermediate course in Dance Composition focusing on choreographic clarity and intent. Topics such as abstraction, motif and
development, and prop and costumes will be explored. Prerequisite: DANCE 319A.

**DANCE 341B Ballet Technique And Theory V**  
Continuation of DANCE 242B, at the advanced level including pointe work. Restricted to dance majors.

**DANCE 341B Ballet Technique And Theory V**  
Continuation of DANCE 242B, at the advanced level including pointe work. Restricted to dance majors.

**DANCE 341M Modern Dance Technique And Theory V**  
Continuation of DANCE 242M on the advanced level. Restricted to dance majors.

**DANCE 341M Modern Dance Technique And Theory V**  
Continuation of DANCE 242M on the advanced level. Restricted to dance majors.

**DANCE 342B Ballet Technique And Theory Vi**  
Continuation of DANCE 341B.

**DANCE 342B Ballet Technique And Theory Vi**  
Continuation of DANCE 341B.

**DANCE 342M Modern Dance Technique And Theory Vi**  
Continuation of DANCE 341M.

**DANCE 342M Modern Dance Technique And Theory Vi**  
Continuation of DANCE 341M.

**DANCE 403A Modern Technique For Non-Majors**

**DANCE 404A Ballet Technique Non-Majors I**  
The applied and theoretical study of ballet including traditional ballet vocabulary. Written assignments required.

**DANCE 404B Ballet Technique For Non-Majors II**  
The applied and theoretical study of ballet including traditional ballet vocabulary. Written assignments required.

**DANCE 405A Modern Dance Repertory I**  
Modern Dance Repertory is an advanced course for modern dance majors to study and perform the repertoire and works of renowned contemporary choreographers. It is a parallel to the Ballet Variations course which teaches the repertoire of ballet master works. Prerequisites: DANCE 341M Modern Dance Technique and Theory V or higher.

**DANCE 405A Modern Dance Repertory I**  
Modern Dance Repertory is an advanced course for modern dance majors to study and perform the repertoire and works of renowned contemporary choreographers. It is a parallel to the Ballet Variations course which teaches the repertoire of ballet master works. Prerequisites: DANCE 341M Modern Dance Technique and Theory V or higher.

**DANCE 405B Modern Dance Repertory II**  
Continuation of DANCE 405A. Prerequisites: DANCE 341M Modern Dance Technique and Theory V or higher.

**DANCE 405B Modern Dance Repertory II**  
Continuation of DANCE 405A. Prerequisites: DANCE 341M Modern Dance Technique and Theory V or higher.

**DANCE 405C Modern Dance Repertory III**  
Continuation of DANCE 405B. Prerequisite(s): DANCE 341M Modern Dance Technique and Theory V or higher.

**DANCE 405D Modern Dance Repertory IV**  
Continuation of DANCE 405C. Prerequisite(s): DANCE 341M Modern Dance Technique and Theory V or higher.

**DANCE 413A Advanced Pas De Deux I**  
Advanced pas de deux is designed to meet the needs of the 400 level ballet student with emphasis placed on perfecting advanced partnering skills. Students will have opportunity to learn pas de deux from great ballets giving students the experience and stamina of dancing entire pas de deus. The course provides coaching on both a stylistic approach and a technical approach to the
DANCE 413A Advanced Pas De Deux I
Advanced pas de deux is designed to meet the needs of the 400 level ballet student with emphasis placed on perfecting advanced partnering skills. Students will have opportunity to learn pas de deux from great ballets giving students the experience and stamina of dancing entire pas de deuxs. The course provides coaching on both a stylistic approach and a technical approach to the performance of materials presented in class. Prerequisites: DANCE 441B Ballet Technique and Theory VII or higher.

DANCE 413B Advanced Pas De Deux II
Continuation of DANCE 413A. Prerequisites: DANCE 441B Ballet Technique and Theory VII or higher.

DANCE 414A Men's Variations I
Men's Variations is designed for the male ballet dancer. Students will have the opportunity to learn and perform renowned variations from the Romantic, Classical, and Neo-Classical periods of ballet. This class will give the male student a true professional coaching experience in their training as they prepare for stage. Prerequisite: DANCE 341B Ballet Techniques and Theory V.

DANCE 414B Men's Variations II
Continuation of DANCE 414A. Prerequisite: DANCE 341B Ballet Techniques and Theory V.

DANCE 415A Variations I
Variations is designed for the 400 level ballet student. The course will teach female variations to the pre-professional student. Students will have the opportunity to learn and perform renowned variations from Romantic, Classical and Neo-Classical periods of ballet. Students will also work in traditional practice tutus/costumes in order to give them a true professional experience in their training as they prepare for the stage. Prerequisites: DANCE 342B Ballet Technique and Theory VI.

DANCE 415B Variations II
Continuation of DANCE 415A. Prerequisites: DANCE 342B Ballet Technique and Theory IV.

DANCE 415C Variations III
Continuation of DANCE 415B. Prerequisite(s): DANCE 342B Ballet Technique and Theory VI or consent of instructor.

DANCE 415D Variations IV
Continuation of DANCE 415C. Prerequisite(s): DANCE 342B Ballet Technique and Theory VI or consent of instructor.

DANCE 416A Performance Techniques I
A two-semester class rotation focusing on performance techniques of folk and character dances of various countries, traditional vocabulary of pantomime gestures, and theatrical dance forms including tap, ballroom, and jazz styles.

DANCE 416B Performance Techniques I
A two-semester class rotation focusing on performance techniques of folk and character dances of various countries, traditional
vocabulary of pantomime gestures, and theatrical dance forms including tap, ballroom, and jazz styles.

**DANCE 416B** Performance Techniques II
A two-semester class rotation focusing on performance techniques of folk and character dances of various countries, traditional vocabulary of pantomime gestures, and theatrical dance forms including tap, ballroom, and jazz styles.

**DANCE 441B** Ballet Technique And Theory VII
Continuation of DANCE 342B at the pre-professional level including pre-professional pointe work. Restricted to dance majors.

**DANCE 441B** Ballet Technique And Theory VII
Continuation of DANCE 342B at the pre-professional level including pre-professional pointe work. Restricted to dance majors.

**DANCE 441M** Modern Dance Technique And Theory VII
Continuation of DANCE 342M at the pre-professional level. Additionally, this course is designed to prepare the student for auditioning and acquiring a performing career. Longer combinations with an emphasis on quick retention of material presented in class will be stressed. Restricted to dance majors.

**DANCE 441M** Modern Dance Technique And Theory VII
Continuation of DANCE 342M at the pre-professional level. Additionally, this course is designed to prepare the student for auditioning and acquiring a performing career. Longer combinations with an emphasis on quick retention of material presented in class will be stressed. Restricted to dance majors.

**DANCE 442B** Ballet Technique And Theory VIII
Continuation of DANCE 441B, on the pre-professional level including pre-professional pointe work.

**DANCE 442B** Ballet Technique And Theory VIII
Continuation of DANCE 441B, on the pre-professional level including pre-professional pointe work.

**DANCE 442M** Modern Dance Technique And Theory VIII
Continuation of DANCE 441M on the pre-professional level.

**DANCE 442M** Modern Dance Technique And Theory VIII
Continuation of DANCE 441M on the pre-professional level.

**DANCE 493** Senior Recital I
The planning, organization and preparation to fulfill the requirements for Senior Recital including selection of repertoire, preparation for utilization of production techniques, creation or restaging of a solo work, and beginning the creation of original choreographic work in group form utilizing the tools previously developed from the student's work in composition.

**DANCE 494** Senior Recital II
A continuation of DANCE 493, this second semester course is the culmination and juried public performance of a fully produced concert on the main stage. The student will present an original choreographic group work. In addition, the student will perform in two different dance idioms; including a self choreographed solo or an approved master work.

**DANCE 497CD** Modern Dance Technique and Theory

**Euphonium (EUPHNIM)**

**EUPHNIM 100A** Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

**EUPHNIM 100B** Applied Study Of A Second Instrument
Applied study of a second instrument. One-half lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**EUPHNIM 100C** Applied Study For The Non-Music Major.
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.
EUPHNM 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

EUPHNM 101 Freshman Euphonium I

EUPHNM 102 Freshman Euphonium II

EUPHNM 201 Sophomore Euphonium I

EUPHNM 202 Sophomore Euphonium II

EUPHNM 301 Junior Euphonium I

EUPHNM 302 Junior Euphonium II

EUPHNM 401 Senior Euphonium I

EUPHNM 402 Senior Euphonium II

Flute (FLUTE)

FLUTE 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for
comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be
taken for credit towards the major. Consent of the instructor.

FLUTE 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied
study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the
instructor.

FLUTE 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

FLUTE 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

FLUTE 101 Freshman Flute I

FLUTE 102 Freshman Flute II

FLUTE 201 Sophomore Flute I

FLUTE 202 Sophomore Flute II

FLUTE 301 Junior Flute I
FLUTE 302 Junior Flute II

FLUTE 401 Senior Flute I

FLUTE 402 Senior Flute II

Guitar (GUITAR)
GUITAR 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

GUITAR 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

GUITAR 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

GUITAR 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

GUITAR 101 Freshman Guitar I

GUITAR 101J Freshman Guitar I (Jazz)

GUITAR 102 Freshman Guitar II

GUITAR 102J Freshman Guitar II (Jazz)

GUITAR 201 Sophomore Guitar I

GUITAR 201J Sophomore Guitar I (Jazz)

GUITAR 202 Sophomore Guitar II

GUITAR 202J Sophomore Guitar II (Jazz)

GUITAR 301 Junior Guitar I

GUITAR 301J Junior Guitar I (Jazz)

GUITAR 302 Junior Guitar II
GUITAR 302J Junior Guitar II (Jazz)

GUITAR 401 Senior Guitar I

GUITAR 401J Senior Guitar I (Jazz)

GUITAR 402 Senior Guitar II

GUITAR 402J Senior Guitar II (Jazz)

Harp (HARP)
HARP 101 Freshman Harp I

HARP 201 Sophomore Harp I

HARP 202 Sophomore Harp II

HARP 301 Junior Harp I

HARP 302 Junior Harp II

HARP 401 Senior Harp I

HARP 402 Senior Harp II

Harpichord (HRPCHD)
HRPCHD 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

HRPCHD 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

HRPCHD 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

HRPCHD 101 Freshman Harpsichord I

HRPCHD 102 Freshman Harpsichord II

HRPCHD 201 Sophomore Harpsichord I
HRPCHD 202 Sophomore Harpsichord II

HRPCHD 301 Junior Harpsichord I

HRPCHD 302 Junior Harpsichord II

HRPCHD 401 Senior Harpsichord I

HRPCHD 402 Senior Harpsichord II

Horn (HORN)
HORN 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

HORN 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

HORN 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

HORN 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

HORN 101 Freshman Horn I

HORN 102 Freshman Horn II

HORN 201 Sophomore Horn I

HORN 202 Sophomore Horn II

HORN 301 Junior Horn I

HORN 302 Junior Horn II

HORN 401 Senior Horn I

HORN 402 Senior Horn II

Oboe (OBOE)
OBOE 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be
taken for credit towards the major. Consent of the instructor.

**OBOE 100B** Applied Study Of A Second Instrument  
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury performance is required. Consent of the instructor.

**OBOE 100C** Applied Study For The Non-Music Major  
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

**OBOE 100D** Applied Study For The Non-Music Major  
Nine one-half hour lessons. No jury required.

**OBOE 101** Freshman Oboe I

**OBOE 102** Freshman Oboe II

**OBOE 201** Sophomore Oboe I

**OBOE 202** Sophomore Oboe II

**OBOE 301** Junior Oboe I

**OBOE 302** Junior Oboe II

**OBOE 401** Senior Oboe I

**OBOE 402** Senior Oboe II

**Organ (ORGAN)**  
**ORGAN 100A** Preparatory Applied Study  
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

**ORGAN 100B** Applied Study Of A Second Instrument  
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**ORGAN 100C** Applied Study For The Non-Music Major  
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

**ORGAN 100D** Applied Study For The Non-Music Major  
Nine one-half hour lessons. No jury required.

**ORGAN 101** Freshman Organ I

**ORGAN 102** Freshman Organ II
ORGAN 201 Sophomore Organ I

ORGAN 202 Sophomore Organ II

ORGAN 301 Junior Organ I

ORGAN 302 Junior Organ II

ORGAN 401 Senior Organ I

ORGAN 402 Senior Organ II

Percussion (PERCSN)
PERCSN 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

PERCSN 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

PERCSN 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

PERCSN 100D Applied Study For The Non-Music Major

PERCSN 101 Freshman Percussion I

PERCSN 101J Freshman Percussion I (Jazz)

PERCSN 102 Freshman Percussion II

PERCSN 102J Freshman Percussion II (Jazz)

PERCSN 201 Sophomore Percussion I

PERCSN 201J Sophomore Percussion I (Jazz)

PERCSN 202 Sophomore Percussion II

PERCSN 202J Sophomore Percussion II (Jazz)
PERCSN 301 Junior Percussion I

PERCSN 301J Junior Percussion I (Jazz)

PERCSN 302 Junior Percussion II

PERCSN 302J Junior Percussion II (Jazz)

PERCSN 401 Senior Percussion I

PERCSN 401J Senior Percussion I (Jazz)

PERCSN 402 Senior Percussion II

PERCSN 402J Senior Percussion II (Jazz)

Piano (PIANO)

PIANO 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

PIANO 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

PIANO 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

PIANO 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

PIANO 101 Freshman Piano I

PIANO 101J Freshman Piano I (Jazz)

PIANO 102 Freshman Piano II

PIANO 102J Freshman Piano II (Jazz)

PIANO 201 Sophomore Piano I

PIANO 201J Sophomore Piano I (Jazz)
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<td>PIANO 302J</td>
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<td>PIANO 401</td>
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<tr>
<td>PIANO 402J</td>
<td>Senior Piano II (Jazz)</td>
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</tbody>
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**Saxophone (SAXOPH)**

**SAXOPH 100A** Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

**SAXOPH 100B** Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**SAXOPH 100C** Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

**SAXOPH 100D** Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

**SAXOPH 101** Freshman Saxophone I

**SAXOPH 101J** Freshman Saxophone I (Jazz)

**SAXOPH 102** Freshman Saxophone II

**SAXOPH 102J** Freshman Saxophone II (Jazz)
SAXOPH 201 Sophomore Saxophone I

SAXOPH 201J Sophomore Saxophone I (Jazz)

SAXOPH 202 Sophomore Saxophone II

SAXOPH 202J Sophomore Saxophone II (Jazz)

SAXOPH 301 Junior Saxophone I

SAXOPH 301J Junior Saxophone I (Jazz)

SAXOPH 302 Junior Saxophone II

SAXOPH 302J Junior Saxophone II (Jazz)

SAXOPH 401 Senior Saxophone I

SAXOPH 401J Senior Saxophone I (Jazz)

SAXOPH 402 Senior Saxophone II

SAXOPH 402J Senior Saxophone II (Jazz)

String Bass (STR-BASS)

STR-BASS 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

STR-BASS 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

STR-BASS 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

STR-BASS 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

STR-BASS 101 Freshman String Bass I

STR-BASS 101J Freshman St Bass I (Jazz)
STR-BASS 102 Freshman String Bass II

STR-BASS 102J Freshman St Bass II (Jazz)

STR-BASS 201 Sophomore String Bass I

STR-BASS 201J Sophomore St Bass I (Jazz)

STR-BASS 202 Sophomore String Bass II

STR-BASS 202J Sophomore St Bass II (Jazz)

STR-BASS 301 Junior String Bass I

STR-BASS 301J Junior St Bass I (Jazz)

STR-BASS 302 Junior String Bass II

STR-BASS 302J Junior St Bass II (Jazz)

STR-BASS 401 Senior String Bass I

STR-BASS 401J Senior St Bass I (Jazz)

STR-BASS 402 Senior String Bass II

STR-BASS 402J Senior St Bass II (Jazz)

Trombone (TROMB)

TROMB 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

TROMB 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

TROMB 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

TROMB 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.
TROMB 101 Freshman Trombone I

TROMB 101J Freshman Trombone I (Jazz)

TROMB 102 Freshman Trombone II

TROMB 102J Freshman Trombone II (Jazz)

TROMB 201 Sophomore Trombone I

TROMB 201J Sophomore Trombone I (Jazz)

TROMB 202 Sophomore Trombone II

TROMB 202J Sophomore Trombone II (Jazz)

TROMB 301 Junior Trombone I

TROMB 301J Junior Trombone I (Jazz)

TROMB 302 Junior Trombone II

TROMB 302J Junior Trombone II (Jazz)

TROMB 401 Senior Trombone I

TROMB 401J Senior Trombone I (Jazz)

TROMB 402 Senior Trombone II

TROMB 402J Senior Trombone II (Jazz)

Trumpet (TRUMPET)

TRUMPET 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

TRUMPET 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.
TRUMPET 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

TRUMPET 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

TRUMPET 101 Freshman Trumpet I

TRUMPET 101J Freshman Trumpet I (Jazz)

TRUMPET 102 Freshman Trumpet II

TRUMPET 102J Freshman Trumpet II (Jazz)

TRUMPET 201 Sophomore Trumpet I

TRUMPET 201J Sophomore Trumpet I (Jazz)

TRUMPET 202 Sophomore Trumpet II

TRUMPET 202J Sophomore Trumpet II (Jazz)

TRUMPET 301 Junior Trumpet I

TRUMPET 301J Junior Trumpet I (Jazz)

TRUMPET 302 Junior Trumpet II

TRUMPET 302J Junior Trumpet II (Jazz)

TRUMPET 368 Orchestral Literature for Trumpet
Intended to introduce students to the standard repertoire for orchestral trumpet; class meets once weekly for an hour. Students will be expected to prepare and play approximately a dozen works per semester, rotating parts in a full trumpet section.
Prerequisite: Permission of faculty

TRUMPET 401 Senior Trumpet I

TRUMPET 401J Senior Trumpet I (Jazz)

TRUMPET 402 Senior Trumpet II

TRUMPET 402J Senior Trumpet II (Jazz)
Tuba (TUBA)

TUBA 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

TUBA 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

TUBA 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

TUBA 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

TUBA 101 Freshman Tuba I

TUBA 102 Freshman Tuba II

TUBA 201 Sophomore Tuba I

TUBA 202 Sophomore Tuba II

TUBA 301 Junior Tuba I

TUBA 302 Junior Tuba II

TUBA 401 Senior Tuba I

TUBA 402 Senior Tuba II

Viola (VIOLA)

VIOLA 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

VIOLA 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

VIOLA 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

VIOLA 100D Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

VIOLA 101 Freshman Viola I
VIOLA 102 Freshman Viola II

VIOLA 201 Sophomore Viola I

VIOLA 202 Sophomore Viola II

VIOLA 301 Junior Viola I

VIOLA 302 Junior Viola II

VIOLA 401 Senior Viola I

VIOLA 402 Senior Viola II

**Violin (VIOLIN)**

**VIOLIN 100A Preparatory Applied Study**
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

**VIOLIN 100B Applied Study Of A Second Instrument**
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**VIOLIN 100C Applied Study For The Non-Music Major**
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

**VIOLIN 100D Applied Study For The Non-Music Major**
Nine one-half hour lessons. No jury required.

**VIOLIN 101 Freshman Violin I**

**VIOLIN 102 Freshman Violin II**

**VIOLIN 201 Sophomore Violin I**

**VIOLIN 202 Sophomore Violin II**

**VIOLIN 301 Junior Violin I**

**VIOLIN 302 Junior Violin II**

**VIOLIN 401 Senior Violin I**
Voice (VOICE)

VOICE 100A Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

VOICE 100B Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

VOICE 100C Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

VOICE 101 Freshman Voice I
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 102 Freshman Voice II
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 201 Sophomore Voice I
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 202 Sophomore Voice II
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 301 Junior Voice I
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 302 Junior Voice II
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 401 Senior Voice I
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 402 Senior Voice II
One hour weekly participation in Vocal Performance Seminar is required.

School of Dentistry

School of Dentistry Undergraduate Courses

Dental Hygiene (DENT-HYG)

DENT-HYG 3000 Dental Morphology And Occlusion
This course is designed to provide the dental hygiene student with a sound knowledge base in dental morphology and occlusion through discussion and laboratory experiences. Students will learn to identify anatomical structures of each tooth and be able to communicate these findings effectively with colleagues and patients in both verbal and written forms. Throughout the course, the clinical application and relevance of dental morphology in the practice of dental hygiene will be emphasized. Special consideration will be given to root morphology as it relates to periodontal instrumentation. Activities will include: identification of extracted teeth, terminology exercises, dental charting experiences and identifying classifications of occlusion.

DENT-HYG 3000 Dental Morphology And Occlusion
This course is designed to provide the dental hygiene student with a sound knowledge base in dental morphology and occlusion.
This course in Periodontics will cover the biological and clinical aspects of periodontal health and pathology. An introduction to the principles of general pathology and organ system pathology including inflammation, immunity and diseases of immune origin, genetic diseases, neoplasia with emphasis on oral cancer, and diseases of selected organ systems including pulmonary, cardiovascular, hematopoietic, endocrine, skeletal, gastrointestinal, hepatic, pancreatic and other systems as time permits.

DENT-HYG 3200 Histopathology
An introduction to the principles of general pathology and organ system pathology including inflammation, immunity and diseases of immune origin, genetic diseases, neoplasia with emphasis on oral cancer, and diseases of selected organ systems including pulmonary, cardiovascular, hematopoietic, endocrine, skeletal, gastrointestinal, hepatic, pancreatic and other systems as time permits.

DENT-HYG 3200 Applied Biochemistry
This course is designed to build upon previous knowledge of chemistry, biology, and physiology as a basis for understanding principles in biochemistry. Presented through a self-paced online format, course content is selected to provide the foundation knowledge in biochemistry needed for subsequent courses in nutrition, pathology, and other health related topics.

DENT-HYG 3220 Dental Biomaterials
This course is designed to provide the dental hygiene student with a sound knowledge base in the science and manipulation of dental biomaterials. Through lectures and laboratory session, the student's ability to make clinical judgments regarding the application of dental biomaterials and the ways in which materials react to the oral environment will be enhanced.

DENT-HYG 3220 Principles Of Periodontics
This course in Periodontics will cover the biological and clinical aspects of periodontal health and pathology. An introduction to the supporting structures of the teeth will provide the foundation of understanding pathogenesis, histopathology and subsequent therapeutic treatment of periodontal diseases. The dental hygienist's role in recognition, prevention and treatment of periodontal diseases and maintenance of periodontal health is examined.
DENT-HYG 3280C Dental Hygiene Clinic I
Students will further develop clinical skills and techniques learned in DENT-HYG 3080L and previous courses by providing services to patients.

DENT-HYG 3280C Dental Hygiene Clinic I
Students will further develop clinical skills and techniques learned in DENT-HYG 3080L and previous courses by providing services to patients.

DENT-HYG 3285 Seminar In Dental Hygiene I
This course expands on theory and background presented in DENT-HYG 3080. Topics include expanding dental hygiene skills required for the care of patients and continued development of problem solving abilities and critical thinking skills as they relate to the provision of dental hygiene care. Provide students with a more insightful view of the role of the dental hygienist in the delivery of comprehensive patient care. Offered: Winter

DENT-HYG 3300 Radiographic Interpretation
The purpose of the course is to introduce interpretation of radiographic anomalies and pathology just prior to the clinical experience. Since there was little time for an emphasis on radiographic interpretation during your second year radiology course, this lecture and participation course supplement clinic instruction in diagnosis of the patient's oral needs and formulation of a treatment plan. Upon completion of this course, the student should be able to recognize simple pathology and radiographic anomalies. Offered: Winter

DENT-HYG 3300 Radiographic Interpretation
The purpose of the course is to introduce interpretation of radiographic anomalies and pathology just prior to the clinical experience. Since there was little time for an emphasis on radiographic interpretation during your second year radiology course, this lecture and participation course supplement clinic instruction in diagnosis of the patient's oral needs and formulation of a treatment plan. Upon completion of this course, the student should be able to recognize simple pathology and radiographic anomalies. Offered: Winter

DENT-HYG 3320 Oral Health Behavior Change
The purpose of this hybrid course is to prepare the junior dental hygiene student to effectively assess and individualize preventive oral health care through the use of brief motivational interviewing. The course will include evidenced based information in dental caries and caries risk assessment, caries preventive measures, introduction to periodontal disease, dental stains, and management of xerostomia, halitosis, and dentinal sensitivity, oral healthcare products and how to care for an oral appliance. The student will subsequently apply course concepts to facilitate patient behavior change in the clinical setting. Prerequisite: General Psychology.

DENT-HYG 3340 Principles Of Public Health
This course introduces the student to principles of public health, the field of epidemiology, health care delivery systems, public health terminology and teaching methodologies to use in culturally diverse community settings. Students will have the opportunity to assess a target population, plan, implement and evaluate appropriate programs. Students will also apply theories and skills of communication and education while preparing and presenting oral health education programs for various population groups. The material presented in this course will extend to the subsequent course DH 4220 (Community Oral Health field Experiences).

DENT-HYG 3340 Principles Of Public Health
This course introduces the student to principles of public health, the field of epidemiology, health care delivery systems, public health terminology and teaching methodologies to use in culturally diverse community settings. Students will have the opportunity to assess a target population, plan, implement and evaluate appropriate programs. Students will also apply theories and skills of communication and education while preparing and presenting oral health education programs for various population groups. The material presented in this course will extend to the subsequent course DH 4220 (Community Oral Health field Experiences).

DENT-HYG 4017 International Outreach
Students in dental hygiene education in the dental school will have the opportunity to apply knowledge and skills while delivering care in an international setting. The long range goal is a practitioner who is sensitive to diverse community needs.

DENT-HYG 4020 Local Anesthesia And Pain Control
This course is designed to prepare dental hygiene students for the safe, effective administration of local anesthesia and nitrous oxide sedation. Included are content areas in anatomy, physiology, pharmacology, and emergency management as they relate to the administration of local anesthetics, nitrous oxide, and pain control. Laboratory sessions are structured to develop actual experiences in administration of local anesthetics and nitrous oxide. Various mechanisms for pain control are also covered. Methods of presentation include lecture, large group discussion, laboratory and clinical participation.
DENT-HYG 4020 Local Anesthesia And Pain Control
This course is designed to prepare dental hygiene students for the safe, effective administration of local anesthesia and nitrous oxide sedation. Included are content areas in anatomy, physiology, pharmacology, and emergency management as they relate to the administration of local anesthetics, nitrous oxide, and pain control. Laboratory sessions are structured to develop actual experiences in administration of local anesthetics and nitrous oxide. Various mechanisms for pain control are also covered. Methods of presentation include lecture, large group discussion, laboratory and clinical participation.

DENT-HYG 4040 Introduction To Research And Instruction
Introduction to research and instruction. The student will be introduced to the idea of scientific inquiry and the research process, in particular as it relates to securing content for teaching. Students will evaluate the usefulness of various databases as well as conduct productive database literature searches. Instructional topics will focus on current technologies such as: production of electronic presentations and handout materials, exporting images for inclusion in print and electronic educational presentation, and development of presentation skills to effectively conduct an educational session.

DENT-HYG 4040 Introduction To Research And Instruction
Introduction to research and instruction. The student will be introduced to the idea of scientific inquiry and the research process, in particular as it relates to securing content for teaching. Students will evaluate the usefulness of various databases as well as conduct productive database literature searches. Instructional topics will focus on current technologies such as: production of electronic presentations and handout materials, exporting images for inclusion in print and electronic educational presentation, and development of presentation skills to effectively conduct an educational session.

DENT-HYG 4050 Periodontics II
This course in Periodontics will provide and introduction to Phase II and III therapy. Periodontal decision making will be emphasized. The dental hygienists' role in recognition, prevention and treatment of periodontal diseases and maintenance of periodontal health is further examined. Prerequisite: DENT-HYG 3620 Principles of Periodontics. Offered: Winter

DENT-HYG 4060C Dental Hygiene Clinic II
The student will continue to develop competency in basic dental hygiene skills. Principles of periodontal techniques, such as nonsurgical periodontal therapy, supportive treatment procedures and comprehensive patient care in a diverse society will be emphasized. The student will be asked to demonstrate professional management skills and productivity.

DENT-HYG 4065 Seminar In Dental Hygiene II
This seminar course is offered in conjunction with DH 4060C, Dental Hygiene Clinic II and is part of the clinical education continuum. Emphasis will be placed on developing advanced clinical techniques, instrument sharpening, intra-oral imaging, adjunctive dental hygiene treatment, and increased problem-solving in the clinical setting.

DENT-HYG 4065 Seminar In Dental Hygiene II
This seminar course is offered in conjunction with DH 4060C, Dental Hygiene Clinic II and is part of the clinical education continuum. Emphasis will be placed on developing advanced clinical techniques, instrument sharpening, intra-oral imaging, adjunctive dental hygiene treatment, and increased problem-solving in the clinical setting.

DENT-HYG 4080 Introduction To Research and Evidence Based Decision Making
This is a lecture/discussion course with assigned exercises in the research process and evaluating scientific studies. Students will apply basic principles of research design and methodology to the critical analysis of contemporary oral health related literature focusing on the review and evaluation of literature as it relates to the practice and profession of dentistry and dental hygiene with the intent of utilizing an evidence-based approach to care. Semester Offered: Fall.

DENT-HYG 4100 Pharmacology
Discussion of pharmacotherapeutic drugs, their classification, applications, administration, adverse effects, and interactions.

DENT-HYG 4100 Pharmacology
An overview and introduction to the major drug groups and common drugs taken by dental outpatients. Course includes the basic principles and general theories of drug action, basic pharmacokinetics, their mechanisms of action and therapeutic uses and the relative dental significance of each.

DENT-HYG 4120 Seminar In Dental Hygiene
This course is offered in conjunction with DENT-HYG 4120C Preventive Dentistry Clinic III, and is a part of the clinical education continuum. Major content emphasis includes developing problem solving abilities, managing patients with special needs and diverse backgrounds (oncology, gerontology and physical disabilities), and managing emergencies in the dental office. Skills in preventive treatment program planning and evaluation of patient care will be reinforced through community experiences and self reflection.
DENT-HYG 4120 Seminar In Dental Hygiene
This course is offered in conjunction with DENT-HYG 4120C Preventive Dentistry Clinic III, and is a part of the clinical education continuum. Major content emphasis includes developing problem solving abilities, managing patients with special needs and diverse backgrounds (oncology, gerontology and physical disabilities), and managing emergencies in the dental office. Skills in preventive treatment program planning and evaluation of patient care will be reinforced through community experiences and self reflection.

DENT-HYG 4120C Dental Hygiene Clinic III
The student will continue to develop competency in intermediate dental hygiene skills. Principles of periodontal techniques, such as root planning, pain control and supportive techniques will be stressed. Comprehensive treatment planning and implementation of comprehensive care to a diverse patient population will be the focus of this course. Continued development of professionalism, management and critical thinking skills will be emphasized.

DENT-HYG 4210 Practice Management
Current relevant issues impacting dental hygiene practice are discussed. Dental practice economics, communicating and management in a diverse society are included. Also included in this course is the study of jurisprudence as it relates to the practice of dental hygiene.

DENT-HYG 4220 Community Oral Health Field Experiences
In this course the student will participate in service learning activities which require application of dental public health principles. Students will have the opportunity to work with a variety of diverse populations. Projects will engage the students in assessing a target population, planning, implementing and evaluating appropriate programs. Students will also apply theories and skills of communication and education while preparing and presenting oral health education programs for various diverse population groups.

DENT-HYG 4230 Principles Of Public Health
This course introduces the student to principles of public health, the field of epidemiology, health care delivery systems, public health terminology and teaching methodologies to use in culturally diverse community settings. Students will have the opportunity to assess a target population, plan, implement and evaluate appropriate programs. Students will also apply theories and skills of communication and education while preparing and presenting oral health education programs for various population groups. The material presented in this course will extend to the subsequent course DH 4220 (Community Oral Health field Experiences).

DENT-HYG 4240 Ethics In Professional Practice
Study of ethics and ethical issue related to the practice of dental hygiene within a diverse society. Includes application of ethical
principles to real-life situations.

**DENT-HYG 4240** Ethics In Professional Practice
Study of ethics and ethical issue related to the practice of dental hygiene within a diverse society. Includes application of ethical principles to real-life situations.

**DENT-HYG 4260** Senior Seminar
This course serves as a means of synthesizing information from all courses in the dental hygiene curriculum and applying content to patient cases and practice management issues. Case-based learning (CBL) will be utilized to review significant content areas as well as to introduce subjects not previously encountered during previous clinical experiences. Case based/problems based learning (PBL) with faculty facilitation will assist students in managing patient cases. This course is also designed to assist in preparing senior dental hygiene students for the written and clinical examinations required for licensure.

**DENT-HYG 4260C** Dental Hygiene Clinic Iv
The student will have the opportunity to reach competency in all clinical skills. Emphasis will be placed on decision-making, problem-solving, critical thinking, appointment and time management. The course will focus on comprehensive dental hygiene care to a diverse population.

**DENT-HYG 4260C** Dental Hygiene Clinic Iv
The student will have the opportunity to reach competency in all clinical skills. Emphasis will be placed on decision-making, problem-solving, critical thinking, appointment and time management. The course will focus on comprehensive dental hygiene care to a diverse population.

**DENT-HYG 4320** Special Patient Care Practicum
Through outside agency affiliation, students will have the opportunity of applying the course content from Principles of Public Health, Dental Health Education and DHE-Practicum. Sites for participation include hospitals, nursing homes, and residential and day activity centers for developmentally disabled. Offered: TBA

**DENT-HYG 4330** Introduction To Oncology And Practicum
Field experience designed to provide the student with personal observation of oncology patients undergoing therapy, chemotherapy for various cancers and surgical treatment and/or radiation therapy for head and neck cancers. A limited opportunity will be provided to assist in treatment planning for oral/dental needs, oral hygiene education, and observation of a head and neck cancer surgery. Laboratory experience will include construction of custom fluoride carriers, demonstration of oral hygiene products and an overview of hospital administration, procedures and in-patient charts, basic oncologic principles and the psychological ramifications of cancer, therapy and rehabilitation. Offered: TBA

**DENT-HYG 4340** Community Dentistry Practicum
The community dentistry practicum provides the student with an opportunity for personal exploration of the many settings of community dentistry. These experiences may lead the students into clinical activities or design and implementation of dental health educational programs. The student will have the opportunity to work with various community health professionals in the Kansas City area. The student will need reliable transportation and should expect some experiences to require travel. Possibilities for practicum experiences are broad and will be defined after an initial assessment of the student’s interest and goals. An individual learning contract will be written following the assessment. The student will be required to meet as a group periodically throughout the semester.

**DENT-HYG 4340** Community Dentistry Practicum
The community dentistry practicum provides the student with an opportunity for personal exploration of the many settings of community dentistry. These experiences may lead the students into clinical activities or design and implementation of dental health educational programs. The student will have the opportunity to work with various community health professionals in the Kansas City area. The student will need reliable transportation and should expect some experiences to require travel. Possibilities for practicum experiences are broad and will be defined after an initial assessment of the student’s interest and goals. An individual learning contract will be written following the assessment. The student will be required to meet as a group periodically throughout the semester.
DENT-HYG 4350 Periodontal Therapy Practicum
This course is designed for the dental hygiene student who desires increased experience with periodontal skills. The course involves practical experience in the graduate periodontics clinic working with a periodontology resident. Two clinic sessions per week; one seminar scheduled weekly. Offered: Winter Semester online, onsite TBA

DENT-HYG 4360 Practice Management Practicum
Current relevant issues impacting dental hygiene practice are discussed. Dental practices, economics, communication and management are included. Practical application of course would include the development of a dental office operating manual. Offered: TBA

DENT-HYG 4380 Research Practicum
This course provides an opportunity to apply the content in the previous course Introduction to Research Design. The protocol identified may be a basic science, clinical or community dental hygiene problem. The field experience may deal with a basic or applied, descriptive or explanatory research question. Offered: TBA

DENT-HYG 4400 Nutrition and Oral Health
This course will cover the sources and use of nutrients associated with general nutrition with an emphasis on applied concepts in oral health and nutrition. The dental hygienists' role in recognition, prevention and treatment of nutrition related oral disease(s) and maintenance of oral health is examined. Students will be introduced to and practice individualized nutritional counseling utilizing previously learned brief motivational interviewing strategies for encouraging diet change. Nutritional counseling principles will be utilized in later clinical courses and practicums. Prerequisites: DENT HYG 3210 Applied Biochemistry and DENT HYG 3220 Oral Health Education or approval of course Director. Offered: Fall 2nd year.

DENT-HYG 4500 Seminar On Issues In Higher Education For Health Professionals
This course is designed to introduce the student to issues encountered in higher education. Topics included are curriculum vitae and resume writing, interviewing skills, accreditation, promotion and tenure, portfolios and outcomes assessment, dental hygiene theory development, and various other topic areas. Offered: Winter Semester

DENT-HYG 4500 Seminar On Issues In Higher Education For Health Professionals
This course is designed to introduce the student to issues encountered in higher education. Topics included are curriculum vitae and resume writing, interviewing skills, accreditation, promotion and tenure, portfolios and outcomes assessment, dental hygiene theory development, and various other topic areas. Offered: Winter Semester

DENT-HYG 4600 Evidence Based Decision Making in the Clinical Practice of Dental Hygiene
This course is designed for the graduate and degree completion dental hygiene student and expand on the student's basic knowledge of the dental hygiene process of care. Utilization of evidence based decision making skills will be explored in an effort to incorporate current scientific literature, personal clinical experience and patient preferences as it relates to the delivery of comprehensive patient care. Skills taught in this course will enhance background knowledge related to the dental hygiene process of care and help to foster an attitude of critical analysis and lifelong learning. Semester Offered: Spring.

DENT-HYG 4620 Principles In Dental Hygiene Education
Through individualized instruction, the student will have an introduction to educational concepts in preparation for student teaching. Topics included are goals and objectives, curriculum and course design, development of course syllabi, teaching/learning strategies, use of technology in teaching, basic principles of testing, micro-teaching demonstration, and student and self evaluation. It is recommended that this course be taken in the same semester as DENT-HYG 4680. Offered: Fall semester on-line only.

DENT-HYG 4625 Dental Hygiene Administration
This course is designed for the post-certificate dental hygiene student. Major topic areas include accreditation of dental hygiene programs, the impact of National and State Board examinations on curriculum planning, selective admissions policies and procedures, faculty evaluation, promotion and tenure and students' rights. Offered: TBA

DENT-HYG 4630 Practicum In Dental Hygiene Administration
Under the supervision of the Director of Dental Hygiene, the student will gain actual experiences in the daily administration of a dental hygiene program. The student may contract for responsibilities such as admissions, budget preparations, course scheduling, report writing and student academic counseling. Offered: TBA

DENT-HYG 4635 Practicum In Clinical Supervision
Under the supervision and permission of the Dental Hygiene Clinical Supervisor, the student will gain actual experience in the duties involved in coordinating the clinical education of a dental hygiene student. The student may contract for responsibilities such as, coordinating mock board examinations, maintaining student clinical records, developing faculty and student clinic
DENT-HYG 4635 Practicum In Clinical Supervision
Under the supervision and permission of the Dental Hygiene Clinical Supervisor, the student will gain actual experience in the duties involved in coordinating the clinical education of a dental hygiene student. The student may contract for responsibilities such as, coordinating mock board examinations, maintaining student clinical records, developing faculty and student clinic schedules and report writing. Offered: TBA

DENT-HYG 4640 Student Teaching And Conference I
Under the direction of a supervising professor, the student may select teaching experience in the classroom areas of their choice. The student develops behavioral course objectives, comprehensive lesson plans, test and examination items, classroom presentations, and prepares student evaluations in the selected classroom teaching areas. The student may select teaching assignments in one of the developed externship student teaching programs. Conferences will be held in conjunction with the course. Students must complete DENT-HYG 4620 and DENT-HYG 4040 prior to enrolling in this course.

DENT-HYG 4640 Student Teaching And Conference I
Under the direction of a supervising professor, the student may select teaching experience in the classroom areas of their choice. The student develops behavioral course objectives, comprehensive lesson plans, test and examination items, classroom presentations, and prepares student evaluations in the selected classroom teaching areas. The student may select teaching assignments in one of the developed externship student teaching programs. Conferences will be held in conjunction with the course. Students must complete DENT-HYG 4620 and DENT-HYG 4040 prior to enrolling in this course.

DENT-HYG 4650 Student Teaching And Conference II
The student will continue to develop teaching skills in laboratory and/or classroom areas as selected by the student under the direction of a supervising professor. Students must complete DENT-HYG 4640 prior to enrolling in this course. Offered: TBA, on-line and on-site

DENT-HYG 4660 Independent Study In Dental Hygiene
This course is designed for the dental hygiene student who desires independent study of a particular problem or area of interest in dental hygiene education. The student must have prior approval of the Director of Dental Hygiene before enrolling in this course. Offered: Fall, winter, summer.

DENT-HYG 4680 Dental Hygiene Clinical Instruction I
Students must complete DENT-HYG 4640 prior to enrolling in this course. Continued development of competency as a clinical instructor under the supervision of the dental hygiene faculty. Requires a half-day in clinic student instructor. Offered: Fall on-line, on-site TBA

DENT-HYG 4685 Dental Hygiene Clinical Instruction II
A continuation of DENT-HYG 4680 Dental Hygiene Clinical Instruction I. Under the supervision of the dental hygiene faculty, students may continue to develop skills as a dental hygiene clinical instructor. Students must complete DENT-HYG 4680 prior to enrolling in this course. Offered: TBA

DENT-HYG 4750 Geriatric Oral Health Promotion And Education
This course is designed to enhance knowledge, attitudes, behavior and clinical care directed at geriatric oral health promotion and education. It is designed for dental hygienists and other health care providers who work with the older adult. Teaching methods include seminar, self-instructional modules and a community-based practicum. Offered: Fall Semester

School of Education

School of Education Undergraduate Courses

Counseling Psychology and Counselor Education (CPCE)
CPCE 220 Self in a Multicultural Society
This course will focus on what it means for the individual to live in a multicultural, urban, and increasingly global society. Students will examine their own cultural identity, including values and worldviews as well as assumptions and biases regarding others' diversity. In addition, the course will focus on learning about different cultures and issues associated urbanism,
globalization, cultural conflicts and social advocacy.

**CPCE 400 Intro to Counseling Psychology**
This course will provide an overview of the profession of counseling psychology. Presentations and assignments will the origins and history of counseling psychology, research and intervention strategies used by counseling psychologists, and current trends in the field. It is important to note that although counseling strategies will be reviewed, this course will not focus on developing or practicing counseling skills. Prerequisites: Students enrolled in this class must have completed 6 hours in psychology including PSYCH 210 or be advances students in Education.

**CPCE 420 Effective Interpersonal Communication**
Theory, and research on interpersonal relationships; students will learn effective communication skills, including understanding verbal and nonverbal behavior, listening, and empathy.

**CPCE 425 Positive Psychology**
Introduction to current theory and empirical research in positive psychology. Topics explored include happiness, self-esteem, empathy, friendship, optimism, love, achievement, strengths, mindfulness, spirituality, and hope.

**Curriculum and Instruction (EDUC-C&I)**
**EDUC-C&I 497 Individual Study**
Guided study of a selected topic in curriculum and instruction. Prerequisite: Permission of instructor.

**Education (EDUC)**
**EDUC 160 Career And Life Planning**
Skill development in career planning through processes of self-assessment and self-development and analyzing the structure of the world of work and occupational information, values, clarification and decision making, vocational exploration and preparation for employment.

**EDUC 189 Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

**EDUC 189 Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

**EDUC 189EE Special Topics**

**EDUC 189PM Special Topics**

**EDUC 189UF Special Topics**

**EDUC 189US Special Topics**

**EDUC 289 Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

**EDUC 289FD Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.
EDUC 289FE Special Topics

EDUC 289FL Special Topics

EDUC 289IA Special Topics

EDUC 289IU Special Topics

EDUC 289KT Special Topics

EDUC 289MA Special Topics

EDUC 289MM Special Topics

EDUC 289MT Special Topics

EDUC 289PS Special Topics

EDUC 289SE Special Topics

EDUC 289TE Special Topics

EDUC 289UE Special Topics

EDUC 289US Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389 Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389CA Special Topics

EDUC 389CI Special Topics

EDUC 389ES Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389FD Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389FE Special Topics
EDUC 389FL Special Topics

EDUC 389IA Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389LL Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389LM Special Topics

EDUC 389LT Special Topics

EDUC 389ME Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389MM Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389UE Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

EDUC 389US Special Topics

EDUC 434 Classroom Diagnosis And Correction Of Reading Problems
Procedures for the diagnosis and correction of reading problems which are appropriate for classroom teachers. Prerequisite: TCH-ED 415.

EDUC 440 Literature For Adolescents
Focus upon literature for adolescents and ethnic literature, specifically, and upon the special reading interests of the adolescent in relation to the methods and materials of reading in grades 7-12, generally. Attention to literature selection standards, censorship, individualized instruction, and reader response.

EDUC 489A Special Topics

EDUC 489CA Special Topics

EDUC 489CI Special Topics

EDUC 489LO Special Topics
**EDUC 489LT** Special Topics

**EDUC 489QT** Special Topics

**Education Reading (EDRD)**

**EDRD 439** Content Area Reading And Language Development
Training in how to reduce the magnitude of difficulty experienced by students in making the transition from learning to read to reading to learn. Specific topics include: inquiry training; vocabulary acquisition; study skills; reading for upper level students; critical/constructive reading, writing across the curriculum, school-wide programming, and working with special needs students (e.g., L.D., ESL, culturally, different). Restrictions: You must be admitted to the school of education to take this course.

**EDRD 439** Content Area Reading And Language Development
Training in how to reduce the magnitude of difficulty experienced by students in making the transition from learning to read to reading to learn. Specific topics include: inquiry training; vocabulary acquisition; study skills; reading for upper level students; critical/constructive reading, writing across the curriculum, school-wide programming, and working with special needs students (e.g., L.D., ESL, culturally, different). Restrictions: You must be admitted to the school of education to take this course.

**Physical Education (PHYS-ED)**

**PHYS-ED 106** Badminton
This course teaches the basic rules, skill techniques, terminology and strategy for badminton. Fall/Winter.

**PHYS-ED 125** Golf

**PHYS-ED 125** Golf

**PHYS-ED 145** Social Dance

**PHYS-ED 149** Basketball And Team Handball
This course teaches the basic rules, skill techniques, terminology and strategy for basketball and team handball.

**PHYS-ED 153** Volleyball

**PHYS-ED 153** Volleyball

**PHYS-ED 157** Weight Training

**PHYS-ED 157** Weight Training

**PHYS-ED 158** Advanced Weight Training
This course teaches free weight training exercises that are used within a well-balanced training program, and provides experience needed to design weight training programs. Prerequisites: PHYS-ED 157 or permission of instructor.

**PHYS-ED 159** Jogging

**PHYS-ED 174** Cross Training
This course provides knowledge, skill and opportunity to improve primary sport/activity performance or overall fitness, through designing and participating in a variety of cross training physical activities.

**PHYS-ED 175** Personal Fitness
This course is designed to expose students to facts about and experiences in dealing with motor, physical, physiological,
psychological and nutritional aspects of the human being. Specific areas of study include hypokinetic disease, physical fitness, nutrition and wellness concepts. Fall/Winter/Summer

**PHYS-ED 175L** Lifetime Fitness Lab  
This course is designed to provide supervised activity experiences including self assessment and self directed physical exercise programs that are coordinated with the lecture portion of the course.

**PHYS-ED 180** Beginning Swimming  
This course is designed to equip each student with basic water safety skills and knowledge in order to make them reasonably safe while in, on or about the water.

**PHYS-ED 181** Fitness Swimming  
This course is designed to challenge and encourage each student to develop an individualized fitness program based on personal goals. Lap swimming as well as water exercise will be incorporated in the class.

**PHYS-ED 189** Special Topics: Activity  
A course designed to deal with a special activity class which is not available in the regular course offerings. Activity class, instructors and prerequisites to be listed in the semester bulletin.

**PHYS-ED 189AG** Special Topics

**PHYS-ED 189AY** Special Topics: Activity

**PHYS-ED 189AY** Special Topics: Activity

**PHYS-ED 189BE** Special Topics: Activity

**PHYS-ED 189KF** Special Topics  
A course designed to deal with a special activity class which is not available in the regular course offerings. Activity class, instructors and prerequisites to be listed in the semester bulletin.

**PHYS-ED 189KT** Special Topics: Activity

**PHYS-ED 189RC** Special Topics: Activity  
A course designed to deal with a special activity class which is not available in the regular course offerings. Activity class, instructors and prerequisites to be listed in the semester bulletin.

**PHYS-ED 189RC** Special Topics: Activity  
A course designed to deal with a special activity class which is not available in the regular course offerings. Activity class, instructors and prerequisites to be listed in the semester bulletin.

**PHYS-ED 189RT** Special Topics: Activity

**PHYS-ED 189SC** Special Topics

**PHYS-ED 189SS** Special Topics: Activity

**PHYS-ED 189WJ** Special Topics: Activity

**PHYS-ED 189WJ** Special Topics: Activity
PHYS-ED 189WM Special Topics: Activity

PHYS-ED 189XX Special Topics: Activity

PHYS-ED 189XY Special Topics: Activity

PHYS-ED 189YO Special Topics: Activity

PHYS-ED 206 First Aid And Safety
Methods of administering first aid in case of accident or sudden illness; bandaging; resuscitation; and caring for wounds and injuries. Safety in schools will be stressed. (Elective).

PHYS-ED 207 Outdoor And Leisure Pursuits
Designed to acquaint students with opportunities for leisure and recreational activity in the outdoors. Emphasizes safety measures and planning skills as well as development of particular movement skills and knowledge about associated wildlife.

PHYS-ED 212 Self Defense
Study in the theory of self defense. Content focuses on: technique for eliminating dangers from daily living, methods for recognizing and avoiding dangers, and skills and strategies for employing physical defense when necessary.

PHYS-ED 312 Physical Education For Elementary Schools
Identifies physical education needs of elementary school child in relation to his/her total development with emphasis on methods and materials.

PHYS-ED 312L Laboratory Experiences In Physical Educ For The Elementary School
This course consists of laboratory teaching experiences, with skill theme combinations of games, gymnastics, dance & fitness. Must be taken concurrently with PHYS-ED 312.

PHYS-ED 323 Nutrition For Fitness And Sport
This course examines the role nutrition, complemented by exercise, may play in the enhancement of fitness and sport performance. Considerable attention will be devoted to the use of nutritional ergogenic aids with reference to athletic performance. Prerequisite: LS-PHYS 117, LS-ANATO 118, LS-ANATO 118L or permission of instructor. Offered: Fall and Winter.

PHYS-ED 361WI Sociology Of Sport And Exercise
The critical examination of the function of sport in the American culture, in an interdisciplinary fashion, with a focus on the contemporary scene. The work of the course will include readings on sociological issues of sport and exercise, the writing of mini-research papers, and a long paper with a presentation. Prerequisite: Introduction course in sociology Offered: MW 1pm-2:15 (Winter)

PHYS-ED 370 Psychology Of Sport And Exercise
Exploration of psychological constructs related to the competitive sport process and to physical activity. Prerequisite: Introductory course in Psychology.

PHYS-ED 389 Special Topics In Health And Physical Education
This course is designed to offer a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

PHYS-ED 401 Health Teaching In The Schools
Study of school health programs with emphasis on methods and materials for health and safety instruction in grades K-8. Prerequisites: Elementary or Physical Education Teaching major.

PHYS-ED 401L Health Teaching In The Schools Lab
Students will attain beginning level competence in skills related to teaching health in schools, including planning, preparation and presentation skills. Computer skills will be used to search internet, e-mail, and develop a computer generated presentation.

PHYS-ED 499 Internship
Extensive experience in a practical situation under supervision of university faculty and on-site personnel. Breadth and intensity
of involvement will depend on student ability. Prerequisites: Upper Division Major; consent of instructor.

**Special Education (EDUC-SP)**

**EDUC-SP 407 Educating Exceptional Children And Youth**
An introductory course in special education concerning issues, theories, and practices for educating the exceptional student in both general and special classrooms or settings; identification and educational intervention procedures for children and adolescents with exceptionalities, including behavior disordered; learning disabled, mentally retarded, speech impaired; visually impaired, physically impaired, hearing impaired, multihandicapped and gifted.

**Teacher Education (TCH-ED)**

**TCH-ED 130 Number Systems And Related Topics**
This course is designed for elementary perservice teachers to meet certification requirements for a course in number theory. The course provides a constructive development of the real number system, introduces concepts from elementary number theory and applies this knowledge of quantitative systems to solve various types of problems. Prerequisites: High School Algebra and Geometry Offered: Fall Semesters

**TCH-ED 140 Geometry For Elementary Teachers**
This course is designed for elementary perservice teachers to meet certification requirements for a course in geometry. It provides a constructive development of axiomatic geometry and introduces concepts from transformation geometry. Elements of spatial sense and measurement are included and an emphasis is placed on applying this knowledge to solve various types of problems. Prerequisites: High School Algebra and Geometry Offered: Winter Semesters

**TCH-ED 150 Foundations of Urban Education**
This course is designed to introduce students to the social and philosophical issues in urban education and will include an emphasis on culture, race, class, and ethnicity as they relate to schooling in urban America. Prerequisite: Students must be accepted to the Institute for Urban Education.

**TCH-ED 151 Introduction to Urban Education Field Experience**
Introduction to Urban Education Field Experience. The field experience is intended to give students an opportunity to see the application of learning theory in authentic classroom situations. Students are encouraged to become involved in the learning of the classroom and provide a helping hand™ to the teacher. Prerequisite: Students must be admitted to the Institute for Urban Education.

**TCH-ED 152 Urban Education Seminar 1: Social Justice**
Introductory seminar to the field of urban education. This seminar aligns with the other fall semester experiences and allows students an opportunity to dialogue about the possible application of their experience work as it applies to teaching in an urban school. Students will be introduced to current topics in education and society; identify, develop and enhance study strategies; observe, listen and think critically, sharpen writing skills; and work effectively in groups.

**TCH-ED 153 Math Methods for Urban Education Teachers: Number Systems**
designed for elementary school teacher. A constructive development of the real number system beginning with the system of whole number, concepts from the elementary number theory; applications of quantitative systems to problems in discrete mathematics. Prerequisites: High School Algebra or College Algebra with at least a C

**TCH-ED 201 Children's Literature**
Survey of books for children. Attention given to standard aids for selection, criteria for evaluating different types of literature and creating an environment for response to literature. A primary focus on multicultural literature for children. Fall

**TCH-ED 251 Child and Adolescent Development for Urban Educators**
This course is designed to provide students with the information they will use as educators to design developmentally appropriate practices for the children they will work in the classroom setting, thus discussions about how the information is translated into the classroom will be applied. To be taken concurrently with TE 252

**TCH-ED 252 Field Exp: Child/Adolescent Development**
This field experience is designed in conjunction with TE 251 Child Development for Urban Teachers to provide students with real-world interactions to study the development of children from birth to adolescence. Field experience setting have been
arranged to provide students with an opportunity to observe and interact with children as they study the four stages of development.

**TCH-ED 253 Urban Education Seminar II: Social Justice**
This seminar aligns with the other semester experiences and allows students an opportunity to dialogue about the possible application of their experience work as it applies to teaching in an urban school. Students will be introduced to current topics in urban education and society; identify, develop and enhance study strategies; observe, listen and think critically, sharpen writing skills; and work effectively in groups as they explore social justice and the relationship between society and schools. Prerequisite: Students must be admitted to the Institute for Urban Education.

**TCH-ED 254 Math Methods for Urban Teachers: Geometry**
Designed for elementary school teachers. A constructive development of geometry and concepts from elementary teacher education; applications will be made to connect with elementary curriculums. Prerequisite: High School Algebra and Geometry or College Algebra with at least a C.

**TCH-ED 255 Integrated Music and Visual Arts**
Basic principals of creativity and their application in the multicultural teaching of art, creative dance and musical and rhythmic interpretation will be explored. An emphasis is placed on interrelationship of these disciplines and their integration into the curriculum. Special emphasis will be placed on helping students to develop a wider and more respectful understanding of our nation's cultural diversity as reflected in all art forms. Students will be exposed to the literature, poetry, theater, visual art and music contributed by African-Americans, Hispanic Americans and Native Americans among other. To be taken concurrently with TE 256. Prerequisite: Must be admitted to the Institute for Urban Education.

**TCH-ED 256 Field Experience: Music and Visual Arts**
The field experience is intended to give students an opportunity to see the application of learning theory and integration of the arts in authentic classroom situations. To be taken concurrently with TE 255. Prerequisite: Must be admitted to the Institute for Urban Education.

**TCH-ED 258 Math Methods for Urban Teachers: Probability and Statistics**
Designed for Elementary and Middle School Teachers. This course is designed to provide undergraduate students in elementary and middle school mathematics with the foundational knowledge of the teaching of probability and statistics and how to use the elements of statistics to interpret and solve problems in elementary and middle school classrooms. Prerequisite: High School Algebra and Geometry or College Algebra with at least a C.

**TCH-ED 259 Introduction to Urban Teaching**
This course is designed to introduce students to the sociopolitical context of urban education, schooling, teaching and learning. It will provide an overview of education in a multicultural democracy, mostly African Americans, Latino Americans, and other racial/ethnic groups and immigrants. Specifically, it will introduce students to the notion of teaching for social justice, the social justice teacher and the social empowerment. Opportunities will be provided for students to review research, debunk stereotypes, negative views, and to recognize urban learners as capable, motivated, and resilient. The ultimate goal of this course is to facilitate experiences that will enable students to develop the knowledge, skills and dispositions needed to learning in urban schools. To be taken concurrently with TE 265. Prerequisite: Must be admitted to the Institute for Urban Education.

**TCH-ED 265 Field Experience: Urban Teaching**
As a CO-requisite to Introduction to Urban Teaching, students will spend 60 hours in urban schools working with diverse student populations, specifically; students will work with African Americans, Latino Americans, and English Language Learners grades K-8. Reflection and discussion of clinical experiences will occur during the urban education seminar and Introduction to urban education classes. Students will keep a reflective journal of their experiences working with diverse learners. To be taken concurrently with TE 259. Prerequisite: Must be admitted to the Institute for Urban Education. Restrictions: CO-Requisite: Urban Education Seminar IV

**TCH-ED 266 Urban Education IV: Classroom Management**
This course will present the foundations for developing expertise in classroom management. Theory and activities will introduce students to strategies and procedures to manage student's behavior as well as keep them on task throughout the school day. The intent of this course is to provide the prospective teacher with the skills and the expertise necessary for you to manage the classroom behavior of your students effectively while creating a caring and supportive atmosphere. Prerequisite: Must be admitted to the Institute for Urban Education. CO-Requisite: Field experience: Urban Teaching.

**TCH-ED 300 Summer Community Experience**
This course provides an in-depth examination into both the evolution of ghetto communities and dynamics of community building in inner cities, with special emphasis on Kansas City, Missouri. In addition, theories of educational psychology as well as child and adolescent behavior will be infused to assist participants in developing age appropriate mentoring/teaching strategies.
and activities. Prerequisite: Must be admitted to the Institute for Urban Education.

**TCH-ED 350 Multi-Media Production For The Classroom**
An introductory course in the media production techniques involving knowledge and practical use of computers, scanners, digital video, digital audio and graphics to create professional multimedia for use in the classroom. The class is designed for prospective and current classroom teachers.

**TCH-ED 351 Literature for A Lifetime**
This course will provide students with an encompassing survey of fiction and non-fiction literature appropriate for all age ranges from the young child to adult. Lectures and discussions will focus on the value of literature as a tool for thinking, as a way of illuminating modern life, as a means of understanding history and human behavior, and as a source of aesthetic pleasure and lifelong enjoyment. Students will learn how to select and critique both the media used in illustrated books and the literacy techniques and forms of the many genre of literature. In this course special emphasis will be placed on literature that reflects life in many cultures and periods of history, in particular from those racial and ethnic sources that make modern America such a pluralistic and diverse society. There will also be an emphasis on the universal themes that run through literature of the societies. Prerequisite: Must be admitted to the Institute for Urban Education.

**TCH-ED 366 Field Experience: Literacy**
Students will spend 100 hours working in an urban school classroom. Students will have the opportunity to apply learning and lessons designed in the semester's pedagogical courses, particularly Integrated Instruction: Language Arts and Social Studies. Students will work with their seminar leader, having the opportunity to be observed and conference about their teaching.

**TCH-ED 385 Teaching and Learning with Technology**
This is an introductory course that covers the fundamentals of standard educational computer applications in addition to providing basic concepts regarding classroom hardware and software integration. This course familiarizes students with the National Educational Technology Standards for Teachers and Students. Because of the computer's increasing importance in all phases of education, hands-on experiences are required throughout the course.

**TCH-ED 400 Child Development**
Intellectual and social development from birth through middle childhood and their implications for the educative process.

**TCH-ED 402 Integrated Arts**
Basic principles of creativity and their application in the multicultural teaching of art, creative dramatics, creative movement and musical rhythmic interpretation will be explored. An emphasis will be placed on the interrelationship of these disciplines and integration into the curriculum.

**TCH-ED 403 Educational Psychology**
This course will provide an introductory examination of psychological research and theory which have implications for, and applications to learning and instruction in interactive social contexts, such as classrooms.

**TCH-ED 404 Education Of The Exceptional Child And Youth**
Students will be introduced to identification and educational intervention strategies for educating exceptional children and adolescents in inclusive classroom situations. This course requires a 10-hour field experience. Fall, Winter, and Summer.

**TCH-ED 404 Education Of The Exceptional Child And Youth**
Students will be introduced to identification and educational intervention strategies for educating exceptional children and adolescents in inclusive classroom situations. This course requires a 10-hour field experience. Fall, Winter, and Summer.

**TCH-ED 405 Practicum I**
Taken in conjunction with elementary and middle school methods courses. Students are expected to spend 60 ours at classroom sites during the semester.

**TCH-ED 406 Practicum II: Elementary**
Taken in conjunction with elementary courses. Students are expected to spend 60 hours at classroom sites during the semester.

**TCH-ED 407 Practicum III - Elementary**
Taken in conjunction with the elementary courses. Students are expected to spend 60 hours at classroom sites during the semester.

**TCH-ED 408WI Advanced Foundations**
The course will concentrate on the development of a philosophical, historical and social model to assist in understanding the complexities, strengths and problems of present day education. Prerequisite: Admission to the Teacher Education program as an
TCH-ED 408WI Advanced Foundations
The course will concentrate on the development of a philosophical, historical and social model to assist in understanding the complexities, strengths and problems of present day education. Prerequisite: Admission to the Teacher Education program as an undergraduate student. Offered: Fall.

TCH-ED 409 Curriculum and Assessment
Curriculum and Assessment is the first of a three-part course sequence designed to assist the preservice teacher in acquiring the knowledge and skills to become an effective practitioner in a world of constant change. The preservice teacher in turn will become a professional educator and facilitator of learning by developing an understanding of the varied roles and relationships that are an integral part of the teaching/learning process. This course focuses on the meaning of curriculum, the role of standards in curriculum design and implementation, the role of assessment is used to effectively enhance instruction and student learning. Restrictions: You must be admitted to the Teacher Education program in Elementary or Middle School Education or the IUE to take this course.

TCH-ED 409 Curriculum and Assessment
Curriculum and Assessment is the first of a three-part course sequence designed to assist the preservice teacher in acquiring the knowledge and skills to become an effective practitioner in a world of constant change. The preservice teacher in turn will become a professional educator and facilitator of learning by developing an understanding of the varied roles and relationships that are an integral part of the teaching/learning process. This course focuses on the meaning of curriculum, the role of standards in curriculum design and implementation, the role of assessment is used to effectively enhance instruction and student learning. Restrictions: You must be admitted to the Teacher Education program in Elementary or Middle School Education or the IUE to take this course.

TCH-ED 412 Language Arts In The Elementary And Middle School
Provides instruction in planning, implementing and assessing language arts activities. Critical analysis in classroom settings is emphasized. Other issues discussed include: literature-based instruction, multicultural perspectives, special needs students and professional behaviors. Fall.

TCH-ED 412 Language Arts In The Elementary And Middle School
Provides instruction in planning, implementing and assessing language arts activities. Critical analysis in classroom settings is emphasized. Other issues discussed include: literature-based instruction, multicultural perspectives, special needs students and professional behaviors. Fall.

TCH-ED 413 Mathematics in the Elementary School
Mathematics-specific pedagogy. Methods, techniques, tools and materials for the effective teaching of mathematics. Emphasis on problem solving and reasoning skills in applying mathematics and on teaching in the context of diverse student backgrounds. Four contact hours per week include a two-hour laboratory. Fall.

TCH-ED 414 General Methods Elementary And Middle - 3
To summarize and synthesize the pre-service educational experience. To become knowledgeable about the realities of a school life in a "real" classroom. Winter.

TCH-ED 415 Reading 1: Intro to Literacy and Reading Instruction
This course introduces concepts about literacy processes; i.e., social, cultural, cognitive and linguistic foundations of reading and writing processes. The major focus of the course is on learning components of a comprehensive reading curriculum, and a range of instructional approaches and methods appropriate for learners at different stages of literacy development.

TCH-ED 416 Reading II: Assessing and Teaching Diverse Learners
This course focuses on understanding the major components of reading processes (phonemic awareness, word identification and phonics, vocabulary and background knowledge, fluency, comprehension strategies, and motivation) and how they are integrated in fluent reading for individual students at different stages of literacy development. The major project for the course involves assessing and teaching an individual student of the course of the semester. Teacher candidates should also assess and teach small groups of readers. Prerequisites: TCH-ED 415. Restrictions: Students admitted to teacher education program. Offered: Winter.

TCH-ED 417 Science Methods In The Elementary School
The course prepares pre-service teachers to teach science from a constructivist, inquiry-oriented perspective.

TCH-ED 417 Science Methods In The Elementary School
The course prepares pre-service teachers to teach science from a constructivist, inquiry-oriented perspective.
TCH-ED 418 Social Studies Methods In The Elementary And Middle Schools
A critical analysis of current practices, teaching methods, materials and the relationship of the social sciences to social studies. Emphasis is on understanding cultural diversity and cultural influences on learning. The planning, implementation and evaluation of an interdisciplinary social studies unit of instruction, focusing on competencies and skills needed for the 21st Century. Fall.

TCH-ED 418 Social Studies Methods In The Elementary And Middle Schools
A critical analysis of current practices, teaching methods, materials and the relationship of the social sciences to social studies. Emphasis is on understanding cultural diversity and cultural influences on learning. The planning, implementation and evaluation of an interdisciplinary social studies unit of instruction, focusing on competencies and skills needed for the 21st Century. Fall.

TCH-ED 419 Student Teaching In Elementary School
Observation and student teaching under supervision in an elementary school. Elementary majors must enroll in 12.0 credit hours. Music education majors enroll in 3.0 or 7.0 hours; art education and foreign language education majors enroll in 7.0 hours. Prerequisite: Formal approval by faculty. Offered: Winter

TCH-ED 419 Student Teaching In Elementary School
Observation and student teaching under supervision in an elementary school. Elementary majors must enroll in 12.0 credit hours. Music education majors enroll in 3.0 or 7.0 hours; art education and foreign language education majors enroll in 7.0 hours. Prerequisite: Formal approval by faculty. Offered: Winter

TCH-ED 420 Adolescent Development
Various aspects of physiological, emotional, cognitive, social and moral development in adolescence will be considered. Attention is focused on a conception of adolescence that is grounded on current research and theory. Fall.

TCH-ED 420 Adolescent Development
Various aspects of physiological, emotional, cognitive, social and moral development in adolescence will be considered. Attention is focused on a conception of adolescence that is grounded on current research and theory. Fall.

TCH-ED 422 Practicum I
Development of observation, interview and analytic skills. Teaching experiences such as teacher aide and/or tutor will be included. Students will be expected to spend 60 hours at classroom sites during the semester.

TCH-ED 422 Practicum I
Development of observation, interview and analytic skills. Teaching experiences such as teacher aide and/or tutor will be included. Students will be expected to spend 60 hours at classroom sites during the semester.

TCH-ED 423 Practicum II
A continuation of Practicum I. Further development of observation, interview and analytic skills. Teaching experiences such as teacher aide and/or tutor will be included. Students will be expected to spend 60 hours at classroom sites during the semester. Prerequisite: TE 422.

TCH-ED 423 Practicum II
A continuation of Practicum I. Further development of observation, interview and analytic skills. Teaching experiences such as teacher aide and/or tutor will be included. Students will be expected to spend 60 hours at classroom sites during the semester. Prerequisite: TE 422.

TCH-ED 424 General Methods - Secondary 1
Basic principles of teaching at the secondary level. This course is to be based on significant research in the area and will encourage a reflective style of teaching. Winter.

TCH-ED 425 General Methods - Secondary 2
The intent of this course is to prepare pre-service teachers to be effective managers of instruction who are skillful in interpersonal communication. Course activities include opportunities for applying techniques based upon a variety of management/discipline models. Field experiences permit on-site observation of various management styles. Winter.

TCH-ED 427 Reading In The Secondary School
An examination of the reading process and study of methods and materials used by the secondary school classroom teacher in assessing student reading ability, determining the readability of content area materials and teaching students of all reading levels how to comprehend their textbooks and other printed instructional materials in various content area subjects. Winter.

TCH-ED 427 Reading In The Secondary School
An examination of the reading process and study of methods and materials used by the secondary school classroom teacher in
assessing student reading ability, determining the readability of content area materials and teaching students of all reading levels how to comprehend their textbooks and other printed instructional materials in various content area subjects. Winter.

TCH-ED 430 Gateway to Teaching
This course is designed to introduce pre-service teachers to the education profession and to the teacher education program at UMKC. Through lecture discussion and field experiences the students will examine the social, political, cultural and professional aspects of teaching in 21st century America. In addition, the students will be given an overview of the teacher preparation program and the requirements and expectations for completing the program and qualifying for a certificate to teach in the state of Missouri. Prerequisites: Admission to the Teacher Education program of consent of the instructor.

TCH-ED 431 Summer Community Experience
This field-based course provides an in-depth examination into both the evolution of urban communities and dynamics of community building in inner cities, with special emphasis on Kansas City, Missouri. In addition, theories of educational psychology as well as child and adolescent behavior will be infused to assist participants in developing age appropriate mentoring/teaching strategies and activities. Students in the course are engaged with the community through field trips, simulations, course events, and community service.

TCH-ED 432 Special Methods Of Teaching English to Middle School and High School Students
This course stresses the understanding, skills and information pertinent to teaching English/language arts in middle schools and junior and senior high schools. Fall.

TCH-ED 432 Special Methods Of Teaching English to Middle School and High School Students
This course stresses the understanding, skills and information pertinent to teaching English/language arts in middle schools and junior and senior high schools. Fall.

TCH-ED 433 Special Methods Of Teaching Middle and Secondary Mathematics
Provides students the opportunity to develop and present lessons in various high school mathematics topics. The emphasis is on modeling the concepts introduced and on using strategies that enable students to discover generalizations for themselves. Fall.

TCH-ED 435 Special Methods Of Teaching Middle and Secondary Science
Provides an opportunity for future science teachers to refine their skills as science educators and at the same time to reflect upon the ways and whys of teaching science. Offered: Fall

TCH-ED 435 Special Methods Of Teaching Middle and Secondary Science
Provides an opportunity for future science teachers to refine their skills as science educators and at the same time to reflect upon the ways and whys of teaching science. Offered: Fall

TCH-ED 436 Special Methods Of Teaching Social Studies to Middle/Secondary School Students
The primary goal of this course is to enable preservice social studies teachers to reflect critically on curriculum and pedagogy in secondary social studies. Students will be introduced to current practices and issues in secondary school social studies. Fall.

TCH-ED 436 Special Methods Of Teaching Social Studies to Middle/Secondary School Students
The primary goal of this course is to enable preservice social studies teachers to reflect critically on curriculum and pedagogy in secondary social studies. Students will be introduced to current practices and issues in secondary school social studies. Fall.

TCH-ED 437 Student Teaching In Secondary School
Observation and student teaching under supervision in a secondary school. Secondary majors not specifically listed here must enroll in 12.0 credit hours. Music education majors enroll in 3.0 or 7.0 hours; art education and foreign language education majors must enroll in 7.0 hours. Prerequisite: Formal approval by faculty Offered: Winter

TCH-ED 437 Student Teaching In Secondary School
Observation and student teaching under supervision in a secondary school. Secondary majors not specifically listed here must enroll in 12.0 credit hours. Music education majors enroll in 3.0 or 7.0 hours; art education and foreign language education majors must enroll in 7.0 hours. Prerequisite: Formal approval by faculty Offered: Winter

TCH-ED 438 Cultural Responsive Strategies for Working With Diverse Student Populations
This course is designed to move students from cultural awareness to the application of culturally responsive practice. Specifically, this course will heighten students' understanding of cultural characteristics and their relationships to teaching and learning. Prerequisite: Admission to Teacher Education Program.

TCH-ED 440 Introduction To Early Childhood Education
Introduction to the field of early childhood care and education, birth to age 8. Designed to familiarize future practitioners with the
unique characteristics of early childhood education and its practice.

**TCH-ED 440 Introduction To Early Childhood Education**
Introduction to the field of early childhood care and education, birth to age 8. Designed to familiarize future practitioners with the unique characteristics of early childhood education and its practice.

**TCH-ED 441 Literacy Development I**
An introduction to how language is acquired and how to facilitate oral language expression in early childhood classrooms.

**TCH-ED 442 Observation, Assessment & Screening In Early Childhood Classrooms**
This course is designed to identify developmentally appropriate ways to measure and evaluate child growth and development.

**TCH-ED 444 Mathematics In Early Childhood And Elementary Schools**
The course prepares teachers who can create a learning environment in which mathematical concepts are drawn from and modeled within the child's active investigation of his or her own surroundings and views of the world. The emphasis is upon mathematics as a sense-making tool through which observation, action, classification, ordering, seeking patterns and common features, and testing of ideas come together to organize experiences and solve problems in the immediate environment. Stress is placed on methods and materials to make mathematics learning active and hands-on. A variety of materials, physical models, and tools are studied in terms of the way they can be used to help children explore, develop and test ideas, construct meaning, and communicate ideas.

**TCH-ED 445 Science In Early Childhood And Elementary Schools**
Focus on ways of involving young children in science activities and experiences designed to promote curiosity, investigation and self-awareness as they explore their world.

**TCH-ED 447 Social Studies In Early Childhood & Elementary Schools**
This course is designed to help students understand basic social studies concepts and pedagogy for young learners.

**TCH-ED 450 Integrating The Curriculum In Early Childhood Education**
A culminating curriculum course for early childhood students. The overall goal is to help students become more aware, skilled and informed about developmentally and educationally appropriate practice and curriculum for children during early childhood. Its focus is on constructing an integrated curriculum. A field-based experience is included.

**TCH-ED 451 Child Guidance Within The Classroom**
Designed to help students examine and evaluate guidance techniques and teaching strategies used in classrooms for young children. Preventive measures in classroom management will be stressed.

**TCH-ED 452 Family And Program Relationships In Early Childhood Education**
Provides insight into the challenge of parenting, knowledge about the development and implementation of parent education and support programs, and the significance of school-family relationships. In addition, this course seeks to facilitate students'
understanding of and sensitivity to parents' perspectives regarding the care and education of their young children. (Concurrent enrollment in TCH-ED 452, Learning from Parents, required).

**TCH-ED 452 Family And Program Relationships In Early Childhood Education**
Provides insight into the challenge of parenting, knowledge about the development and implementation of parent education and support programs, and the significance of school-family relationships. In addition, this course seeks to facilitate students' understanding of and sensitivity to parents' perspectives regarding the care and education of their young children. (Concurrent enrollment in TCH-ED 452, Learning from Parents, required).

**TCH-ED 453 Learning From Parents**
Designed to provide students with direct interactions with parents whose children are participating in early childhood programs, birth to age 8. Emphasis is placed upon students' understanding of, and sensitivity to, parents' perspectives regarding the care and education of their young children and recognition of parents as significant informants about their children. (Concurrent enrollment in TCH-ED 452, Family and Program Relationships, required).

**TCH-ED 454 Human Relations In The Early Childhood Classroom**
Students will analyze the connections between an effective helping relationship and effective teaching in the early childhood classroom. Effective interpersonal communication skills will be identified and practiced. The development of self-concept will be discussed.

**TCH-ED 454 Human Relations In The Early Childhood Classroom**
Students will analyze the connections between an effective helping relationship and effective teaching in the early childhood classroom. Effective interpersonal communication skills will be identified and practiced. The development of self-concept will be discussed.

**TCH-ED 455 Student Teaching In Preschool**
Observation and student teaching under supervision in a preschool setting.

**TCH-ED 456 Student Teaching In Elementary, K Through 3**
Observation and student teaching under supervision in an elementary school, grades K through 3.

**TCH-ED 457 Infant And Toddler Care And Education**
In this course, students will investigate infant and toddler care and education theories and practices. Students will learn about appropriate curriculum and teaching methods, visit infant and toddler programs, learn about state regulations and national standards for quality, and complete an environment rating scale.

**TCH-ED 457 Infant And Toddler Care And Education**
In this course, students will investigate infant and toddler care and education theories and practices. Students will learn about appropriate curriculum and teaching methods, visit infant and toddler programs, learn about state regulations and national standards for quality, and complete an environment rating scale.

**TCH-ED 458 Practicum For Learning About Infants And Toddlers**
The purpose of this course is to learn about child care and education practices in various centers. We will discuss how practices are influenced or constrained by human biology and developmental stages, as they are by ecological and environment pressures such as mothers' work roles. The central themes of the course can be summarized by the phrases ""purposeful care practices"" and the ""optimal practices for infants and toddlers."" 

**TCH-ED 458 Practicum For Learning About Infants And Toddlers**
The purpose of this course is to learn about child care and education practices in various centers. We will discuss how practices are influenced or constrained by human biology and developmental stages, as they are by ecological and environment pressures such as mothers' work roles. The central themes of the course can be summarized by the phrases ""purposeful care practices"" and the ""optimal practices for infants and toddlers.""

**TCH-ED 459 Early Childhood Program Management And Advocacy**
Students will begin to explore basic early childhood program components. Different types of advocacy will be presented,
TCH-ED 459 Early Childhood Program Management And Advocacy
Students will begin to explore basic early childhood program components. Different types of advocacy will be presented, discussed, and implemented. Prerequisite: TCH-ED 440

TCH-ED 460 Middle School Curriculum
This course offers the pre-service teachers an overview of middle school goals, basic principles, and organizations. The course explores interdisciplinary teaming, flexible scheduling, exploratory and advisory programs, and other aspects of the organization within the context of middle school goals and practices. Offered: Summer/Fall

TCH-ED 461 Student Teaching In Middle School
Observation and student teaching under supervision in a middle school setting.

TCH-ED 462 Middle School Principles And Organization
This course offers the pre-service teachers an overview of middle school goals, basic principles, and organizations. The course explores interdisciplinary teaming, flexible scheduling, exploratory and advisory programs, and other aspects of the organization within the context of middle school goals and practices. Offered: Summer/Fall

TCH-ED 464 Math Methods for Urban Teachers
Mathematics-specific pedagogy for urban teachers. Methods, techniques, tools and materials for the effective teaching of mathematics. Emphasis on problem solving and reasoning skills in applying mathematics and on teaching in the context of diverse student backgrounds. Portions of this course will occur in urban school classrooms. Students will apply learning to urban classrooms. Prerequisite: Must be admitted to the Institute for Urban Education.

TCH-ED 465 Urban Education VI: Teaching Diverse Students
This interactive course will investigate and examine the principals of teaching diverse students and factors influencing effectiveness of instruction, including empowering African American males, teaching student from diverse populations and working with students with special needs. Some of the class sessions will be taught electronically and work will be submitted electronically. Prerequisite: Must be admitted to the Institute of Urban Education.

TCH-ED 466 Field Experience: Diverse Learners
Students will spend a minimum of 90 hours in an urban school classroom. Students will have the opportunity to apply learning and lessons designed in the semester's pedagogical courses, particularly Best Practices for Teaching Math, Science, and strategies for working with diverse learners. Students will work with their seminar leader, having the opportunity to be observed and conference about their teaching. To be taken concurrently with TE 465. Prerequisite: Must be admitted to the Institute for Urban Education.

TCH-ED 470 Philosophy And History Of Science And Technology
This course uses an historical survey to introduce the main philosophical interpretations of the nature and structure of both science and technology. Core concepts such as prediction, explanation, progress, truth, and utility will be examined in light of various philosophical perspectives. Following this, case study methodology will be used to examine interactions among science, technology, and society. Although the major focus will be upon modern Western culture, some attention will be paid to earlier and non-Western cultures. Case studies to be examined include: under the topic of Risk: Perception and Estimation, nuclear power and pesticides; the impact of high technology upon medicine; and the estimated cost/benefit of computer-mediated communications, for example, the Internet. Offered: Fall Semester.

TCH-ED 470 Philosophy And History Of Science And Technology
This course uses an historical survey to introduce the main philosophical interpretations of the nature and structure of both
science and technology. Core concepts such as prediction, explanation, progress, truth, and utility will be examined in light of various philosophical perspectives. Following this, case study methodology will be used to examine interactions among science, technology, and society. Although the major focus will be upon modern Western culture, some attention will be paid to earlier and non-Western cultures. Case studies to be examined include: under the topic of Risk: Perception and Estimation, nuclear power and pesticides; the impact of high technology upon medicine; and the estimated cost/benefit of computer-mediated communications, for example, the Internet. Offered: Fall Semester.

**TCH-ED 475 Working with Families and Communities**
This course provides an in-depth examination of research and theory relative to children, family, and community which have implications for and application to learning and instruction. Emphasis will be placed on the exploration and critical examination of and insights into the challenge or parenting, knowledge about the development and support programs, and the significance of school-family relationships. In addition, this course seeks to facilitate students' understanding of and sensitivity to families’ perspectives regarding the care and education of their children and adolescents. The course is for students in the elementary education program and Institute for Urban Education, This course is offered fall semester only. Prerequisites: must be admitted to Teacher Education or IUE.

**TCH-ED 480 Practicum I Early Childhood**
Early Childhood students will participate in observation, assessment, and screening activities as they explore the complex nature of primary school settings. This course is taken in conjunction with TCH-ED 442. Students will be expected to spend 60 hours at classroom sites during the semester.

**TCH-ED 480 Practicum I Early Childhood**
Early Childhood students will participate in observation, assessment, and screening activities as they explore the complex nature of primary school settings. This course is taken in conjunction with TCH-ED 442. Students will be expected to spend 60 hours at classroom sites during the semester.

**TCH-ED 481 Practicum II Early Childhood**
Early Childhood students will participate in classroom management and guidance practices as they explore the complex nature of pre-kindergarten settings. This course is taken in conjunction with TCH-ED 451. Students will be expected to spend 60 hours at classroom sites during the semester. Prerequisite: TCH-ED 480Restrictions: Students must be admitted to teacher education program

**TCH-ED 481 Practicum II Early Childhood**
Early Childhood students will participate in classroom management and guidance practices as they explore the complex nature of pre-kindergarten settings. This course is taken in conjunction with TCH-ED 451. Students will be expected to spend 60 hours at classroom sites during the semester. Prerequisite: TCH-ED 480Restrictions: Students must be admitted to teacher education program

**TCH-ED 485 Language Arts in the Early Childhood Classroom**
This course provides instruction in planning, implementing, and assessing early childhood (birth through third-grade) language arts activities. Critical analysis in classroom settings is emphasized. Other issues discussed include: literature-based instruction, multicultural perspectives, special needs students and professional behaviors.

**TCH-ED 492 Integrated Instruction: Language Arts and Social Studies**
This course will focus on teaching Language Arts and Social Studies in the Urban Elementary School. Methods, techniques, tools and materials for the effective teaching will be observed and practiced. Students will work closely with in-service teachers and their university instructor. There will be emphasis on balanced literacy, readers' and writers' workshops, literacy development, assessment techniques and the integration of social studies and language arts. Curriculum mapping and unit planning will be introduced and practiced in this course. This course will focus on school and classroom organization and management, detailed lesson planning, use of instructional materials and media in the teaching of language arts and social studies. Prerequisite: Must be admitted to the Institute of Urban Education.

**TCH-ED 493 Mathematics Capstone**
This seminar will develop academic excellence, inquiry and reflective problem solving, and skills to create caring and safe environments. It is designed to complement the student teaching experience through discussing and analyzing school and school-based issues. It is intended to help further development of reflective, critical, and analytical approaches to pedagogical decision making through supportive collaboration, Students are asked to use knowledge of child/adolescent development, learning, classroom dynamics society, history, culture, and subject area to analyze classroom situations, and develop and defend alternatives to observed teaching practices and problems. Prerequisites: TE 433 and concurrent enrollment in Student Teaching.

**TCH-ED 494 Language Arts Capstone**
Designed for students in their last professional semester of the TE program, and are in a full-time student teaching placement.
The course will serve as a culminating experience of the major concepts from the previous three semesters. Topics covered include: school of law, classroom management, working with special needs students, building critical thinking activities into the curriculum, planning and implementing authentic assessments, and examining the obligations, challenges, and realities of the teaching profession. Prerequisite: TE 432 and concurrent enrollment in student teaching.

TCH-ED 495 Science Capstone
This course is a continuation of science teaching methods to prepare prospective middle and high school science teachers with the necessary background knowledge and laboratory skills to become effective professional science teachers. This course is pragmatic in nature to assist you during student teaching and will stress application of inquiry instruction, science assessment, data analysis, and analysis of learning. The blended and online synchronous format allows maximum contact time in a classroom setting. Topics include science safety, classroom management, behavior management, homework, and NSTA position statements, working with students with disabilities, and professionalism in science education. The objectives will be addressed in a seminar setting within the context of student teaching. Application of materials developed during science methods and subsequent preparation the Teacher Work Sample are a major emphasis area. Prerequisites: TE 435 and concurrent student teaching.

TCH-ED 496 Social Studies Capstone
This seminar is designed to complement the student teaching experience through the discussion and analysis of school-based issues. It is intended to help you further develop a reflective, critical and analytical approach to pedagogical decision making through supportive collaboration. You will be asked to use your knowledge of child/adolescent development, learning, classroom dynamics, society, history, culture and your subject area to analyze classroom situations, as well as to defend alternatives to observed teaching practices and problems. Prerequisites: TE 436 and concurrent enrollment in Student Teaching.

TCH-ED 497 Introduction to Teaching Internship
The teaching of this course will occur at urban elementary school sites. The focus will be on basic curriculum development, developing and understanding of teaching/learning styles and varied instructional methodologies. The utilization of technology as an instructional aid, the purpose and creation of varied assessments, for instructional use will be addressed. Continued emphasis will be placed on reflective thinking through class discussion, modeling activities and written assignments. Students will prepare units of study and long range plans for their student teaching internship. Students will have opportunities to apply their learning to urban classrooms. Students will spend a minimum of 300 hours in their teaching internship classroom. Prerequisite: Must be admitted to the Institute for Urban Education.

TCH-ED 498 Urban Education Seminar VII
This seminar meets weekly for 2 hours and is led by a clinical professor who serves as a mentor for the students throughout their program. Students will work closely with mentor teachers in the application and integration of social justice and the elementary school curriculum. A critical analysis of current practices, teaching methods, materials and how social justice manifests in curriculum and instruction. Emphasis is on understanding cultural diversity and cultural influences on learning. Concepts of a classroom community, parental relations and democratic classroom processes will be addressed. Students will have opportunities to apply their learning to urban classrooms. Prerequisite: Must be admitted to the Institute for Urban Education.

TCH-ED 499 Capstone
This seminar is designed to complement the student teaching experience through the discussion and analysis of school-based issues. It is intended to help further develop a reflective, critical and analytical approach to pedagogical decision making through supportive collaboration.

School of Nursing

School of Nursing Undergraduate Courses

Nursing (NURSE)
NURSE 101 Introduction To Nursing
This introductory two-hour course is designed to facilitate role socialization into professional nursing. Beginning with a brief historical overview of professional nursing, nursing is defined and the philosophical and practice standards of the profession are discussed. The student explores nursing's image and power bases in relationships to professional accountabilities and roles. The value and tenets of evidence-based care are emphasized and integrated with use of nursing process in professional, reflective decision-making. A review of educational paths in professional nursing leads the student into a comprehensive survey of the multiple roles, responsibilities, and requisite skills of the professional nurse today and in the future. Prerequisites: None
NURSE 120 Anatomy & Physiology I
This course examines the structure and function of the human body from the molecular to the organismal level as they interact among all body systems across the life span. Instructors also attempt to correlate course materials with the clinical aspects of the application of physiological knowledge. Co-requisite laboratory exercises provide practical application of theoretical concepts. In this first term of two-term course, molecular biology, biochemistry, cellular biology, and histology are studied as well as the integumentary, musculoskeletal, and nervous systems. Restrictions: Pre-nursing or Health Sciences students Offered: Fall

NURSE 120 Anatomy & Physiology I
This course examines the structure and function of the human body from the molecular to the organismal level as they interact among all body systems across the life span. Instructors also attempt to correlate course materials with the clinical aspects of the application of physiological knowledge. Co-requisite laboratory exercises provide practical application of theoretical concepts. In this first term of two-term course, molecular biology, biochemistry, cellular biology, and histology are studied as well as the integumentary, musculoskeletal, and nervous systems. Restrictions: Pre-nursing or Health Sciences students Offered: Fall

NURSE 125 Medical Terminology
This course is designed to introduce the student to medical terminology. The major foci of this course are to acquaint the student in how medical terms are formed; how medical terms are applied to organs, body systems and pathological conditions; how common medical abbreviations are used; and how medical terminology is integrated into the medical record. Prerequisite: None Restrictions: None Offered: Fall/Winter

NURSE 127 Drug Calculations
The drug calculation course is designed to introduce the student to methods of drug dosage calculation needed for medication administration in the health care setting. This course will review basic mathematical concepts, introduce medication specific terminology, discuss interpretation of medication orders, identify key elements of the medication label and enable the student to calculate appropriate and accurate drug dosages. Prerequisite: None Restrictions: None Offered: Fall/Spring

NURSE 132A Introduction To Holistic Health Care: Medicinal Plants and Herbs
This course provides a hands-on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will cover medicinal plants and herbs and related topics.

NURSE 132A Introduction To Holistic Health Care: Medicinal Plants and Herbs
This course provides a hands-on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will cover medicinal plants and herbs and related topics.

NURSE 132B Introduction To Holistic Health Care: Energy Medicine
This course provides a hands-on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Energy Medicine and related topics.

NURSE 132B Introduction To Holistic Health Care: Energy Medicine
This course provides a hands-on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Energy Medicine and related topics.

NURSE 132C Introduction To Holistic Health Care: Relaxation Techniques
This course provides a hands-on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Relaxation Techniques and related topics.

NURSE 132C Introduction To Holistic Health Care: Relaxation Techniques
This course provides a hands-on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and
health care consumers, the content will include Relaxation Techniques and related topics.

**NURSE 132D Introduction to Holistic Health Care: Chinese Medicine and Hypnosis**
This course provides a hands-on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Chinese Medicine, Hypnosis and other related topics.

**NURSE 132D Introduction to Holistic Health Care: Chinese Medicine and Hypnosis**
This course provides a hands-on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Chinese Medicine, Hypnosis and other related topics.

**NURSE 134A Intro To The History Of Healthcare-Trends/Issues Impacting Healthcare & Healthcare Professions**
This course is designed to introduce the rich and unique development of some of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Past healthcare trends, the societal importance of helping, and the history of nursing education will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Spring

**NURSE 134A Intro To The History Of Healthcare-Trends/Issues Impacting Healthcare & Healthcare Professions**
This course is designed to introduce the rich and unique development of some of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Past healthcare trends, the societal importance of helping, and the history of nursing education will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Spring

**NURSE 134B Intro to Hist of Healthcare-Trends/Issues in Public Health, Medicine, and Physical Therapy**
This course is designed to introduce the rich and unique development of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Trends and issues in public health, medicine, and physical therapy will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Spring

**NURSE 134B Intro to Hist of Healthcare-Trends/Issues in Public Health, Medicine, and Physical Therapy**
This course is designed to introduce the rich and unique development of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Trends and issues in public health, medicine, and physical therapy will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Spring

**NURSE 134C Intro to the Hist of Healthcare-Trends/Issues in Nurs, Dentistry, and Pharmacy Organizations**
This course is designed to introduce the rich and unique development of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Past trends and issues in nursing, dentistry, and pharmacy organizations will be identified and discussed. The social, philosophical, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Spring

**NURSE 134C Intro to the Hist of Healthcare-Trends/Issues in Nurs, Dentistry, and Pharmacy Organizations**
This course is designed to introduce the rich and unique development of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Past trends and issues in nursing, dentistry, and pharmacy organizations will be identified and discussed. The social, philosophical, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Spring

This course is designed to give an introductory examination of the rich and unique development of the major American healthcare field as disciplines, professions, arts, and sciences from a historical perspective. Past trends and issues in social work, the future of public health, and the historical effects of cultural diversity will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Spring

This course is designed to give an introductory examination of the rich and unique development of the major American healthcare field as disciplines, professions, arts, and sciences from a historical perspective. Past trends and issues in social work, the future of public health, and the historical effects of cultural diversity will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Spring
NURSE 160 Anatomy And Physiology II
This course is a continuation of NURSE 120. CO-requisite laboratory exercises provide practical application of theoretical concepts. Physiologic systems including endocrine, cardiovascular, immune, respiratory, digestive, renal, and reproductive are studied as well as embryology and genetics. Prerequisite: Nurse 120 or HLSC 120

NURSE 160 Anatomy And Physiology II
This course is a continuation of NURSE 120. CO-requisite laboratory exercises provide practical application of theoretical concepts. Physiologic systems including endocrine, cardiovascular, immune, respiratory, digestive, renal, and reproductive are studied as well as embryology and genetics. Prerequisite: Nurse 120 or HLSC 120

NURSE 220 Fundamental Concepts & Skills
This course focuses on fundamental concepts, skills, and techniques that provide a foundation for clinical practice. The beginning student will identify factors that may influence the human system and applies the nursing process in health care setting using basic nursing interventions. This six credit hour course consists of four credit hours of didactic/discussion and two hours of clinical laboratory/lab. Prerequisite: Acceptance into Clinical Nursing Program.

NURSE 230 Health Issues In Aging
This course focuses on promotion and maintenance of the health of the older adult population. The physiological and psychological domains, socio-cultural influences, legal and ethical issues, and health care resources pertaining to older adults will be explored. Assessments, problems and strengths, interventions, and outcomes specific to the older adult population are discussed. Opportunities are provided for interaction with the older population. Prerequisite: Admission into the BSN of BHS Program Offered: Fall

NURSE 230 Health Issues In Aging
This course focuses on promotion and maintenance of the health of the older adult population. The physiological and psychological domains, socio-cultural influences, legal and ethical issues, and health care resources pertaining to older adults will be explored. Assessments, problems and strengths, interventions, and outcomes specific to the older adult population are discussed. Opportunities are provided for interaction with the older population. Prerequisite: Admission into the BSN of BHS Program Offered: Fall

NURSE 230 Health Issues In Aging
This course focuses on promotion and maintenance of the health of the older adult population. The physiological and psychological domains, socio-cultural influences, legal and ethical issues, and health care resources pertaining to older adults will be explored. Assessments, problems and strengths, interventions, and outcomes specific to the older adult population are discussed. Opportunities are provided for interaction with the older population. Prerequisite: Admission into the BSN of BHS Program Offered: Fall

NURSE 250 Health Assessment For Nursing Practice
This course is designed to provide a systematic approach to the physiological, psychological sociocultural, and developmental assessment of individuals emphasizing findings considered to be within normal limits. The health history is emphasized as a tool for assessing mental and physical status. This course is designed for the pre-licensure student. This course consists of three hours of supervised practice per week. Prerequisites: Admitted into BSN program or consent of the instructor.

NURSE 252 Human Growth And Development
This course provides a basic introduction to the theory for human growth and development across the lifespan. Emphasis is placed upon the biological and the psychosocial aspects of growth and development. Content is organized in a modified chronological order dividing information into major stages of growth and development across the lifespan. Prerequisite: None Restrictions: None Offered: Spring

NURSE 256 Pharmacology
This is a course in pharmacology that builds on prior knowledge of anatomy, physiology, chemistry, microbiology and pathophysiology. The major focus of the course is the basic and clinical concepts of pharmacology in evidence-based care. This course covers drug knowledge in the areas of pharmacotherapeutics, pharmacodynamics, pharmacokinetics, adverse reactions and contraindications, therapeutics incidations and nursing implications. Prerequisites: Nursing 127, 220, 230, 250, 395. Offered: Spring

NURSE 262 Management Of Adult Health I
This medical-surgical course focuses on utilization of the nursing process to the specific illnesses of the adult client in the acute care setting. High volume disease processes with associated nursing care are emphasized. The effects on the individual as a holistic system are explored. Skills are developed in caring for persons with biological, psychological and social system alterations to facilitate optimal client outcomes. This five credit hours course consists of three hours of didactic/discussion and
two hours clinical/ lab (120 hours). Prerequisites: Nursing 120, 220, 230, 250, 395. Corequisite: Nursing 256

NURSE 342 Legal & Ethical Issues
This course is designed to investigate medical-legal issues and explore the implications that legal intervention and interpretation as well as litigation have on the scope of nursing practice and the delivery of patient care. Ethical standards of nursing practice and diverse individual and group values are explored, and various ethical systems, concepts and principles used in ethical decision making are introduced. Prerequisites: Admission to the Nursing Major or BSN Completion Program Offered: Fall

NURSE 342 Legal & Ethical Issues
This course is designed to investigate medical-legal issues and explore the implications that legal intervention and interpretation as well as litigation have on the scope of nursing practice and the delivery of patient care. Ethical standards of nursing practice and diverse individual and group values are explored, and various ethical systems, concepts and principles used in ethical decision making are introduced. Prerequisites: Admission to the Nursing Major or BSN Completion Program Offered: Fall

NURSE 345 Quantitative Analysis In The Health Sciences
This course focuses upon the skills required for the utilization of scientific findings in evidence-based care. The conceptual basis of descriptive and the inferential statistics found in the properties of the normal distribution, comprise the core of these skills. Using the normal distribution as a structure for understanding descriptive and inferential procedures, the course presents information necessary to the selection, computation and interpretation of basic statistics relevant to evidence based-care in the health sciences. Discussions of variables, measurement and tabular and graphic presentation of data precede the development of computation skills.

NURSE 345 Quantitative Analysis In The Health Sciences
This course focuses upon the skills required for the utilization of scientific findings in evidence-based care. The conceptual basis of descriptive and the inferential statistics found in the properties of the normal distribution, comprise the core of these skills. Using the normal distribution as a structure for understanding descriptive and inferential procedures, the course presents information necessary to the selection, computation and interpretation of basic statistics relevant to evidence based-care in the health sciences. Discussions of variables, measurement and tabular and graphic presentation of data precede the development of computation skills.

NURSE 346 Women's Health in the Community
This two credit hour elective course (three credit hours with instructor consent) will introduce students to the social and personal health concerns of women. The web-based course will examine health issues which women encounter across the lifespan. Each issue will be examined from a traditional and a woman-centered perspective. Emphasis will be placed on caring for women within a holistic framework and recognizing how ethnocultural background, socioeconomic status, age, gender, and gender roles can affect their lives and their health status. Students will integrate biopsychosocial concepts of wellness, health risk identification, and health promotion. Prerequisites: Minimum sophomore standing. Semester Offered: Various

NURSE 346 Women's Health in the Community
This two credit hour elective course (three credit hours with instructor consent) will introduce students to the social and personal health concerns of women. The web-based course will examine health issues which women encounter across the lifespan. Each issue will be examined from a traditional and a woman-centered perspective. Emphasis will be placed on caring for women within a holistic framework and recognizing how ethnocultural background, socioeconomic status, age, gender, and gender roles can affect their lives and their health status. Students will integrate biopsychosocial concepts of wellness, health risk identification, and health promotion. Prerequisites: Minimum sophomore standing. Semester Offered: Various

NURSE 356 Spanish for Health Care Pre-Professionals
This course will focus on conversational Spanish, medical terminology in Spanish and written/read Spanish. This course will provide the student with basic knowledge that will allow basic communication with patients who speak/read/write Spanish. This is a fast paced course and will require practice of the language outside of the classroom in order to master the material presented. Prerequisite: Permission of Instructor Offered: All Semesters

NURSE 359 Introduction To International Health Care
This course is designed to introduce students to the health care issues found in other countries with a focus on low-and middle-income countries. Students will study philosophical, system and cultural aspects of health care and will be expected to compare health care in the United States with other nations. Core concepts include globalization; health care reform; organization and management of health systems; community, public and primary health care; humanitarian assistance and refugee health; international nutrition; vaccine development and policy; disease prevention and control; and social and behavioral interventions. This course can be taken for 1-3 hours of credit: One Credit Hour- Students do not take the course (if not offered or cancelled), but participate in the summer study-abroad trip and other activities as determined by the coordinating faculty; Two Credit Hours - Students complete the course as defined in the syllabus but do not participate in the study-abroad trip; Three Credit Hours - Students complete the course and participate in the study-abroad trip and other activities as determined by the coordinating faculty.
facult. Prerequisites: At least second year student in the UMKC School of Nursing or permission of instructor. Offered: Spring

NURSE 360 Management Of Mental Health
This course is designed to introduce the student to psychiatric mental health nursing through the study of sound psychiatric nursing theory, therapeutic and clinical applications across the treatment continuum and the lifespan. This course will focus on the dynamics of the nursing process framework, the establishment and maintenance of a therapeutic nurse-client relationship and the dignity of each person. Emphasis will be placed on assessment, therapeutic communication, neurobiological theory, pharmacology and the individual as a whole person. Nursing interventions will focus on all aspects of client care, communication, client/family teaching, and community resources and their practical application in a variety of clinical settings. Content will be arranged around the major cateories identified in the DSM-IV-TR and current social and emotional concerns including mental health settings, e.g. grief and loss, anger and aggression, abuse and violence. This four credit hour course consists of two hours of didactic/discussion and two hours of clinical/lab. Prerequisites: NURSE 342, 344, 366.

NURSE 362 Management Of Adult Health II
This medical-surgical course focuses on application of the nursing process to the delivery and the management of adult clients across the care continuum. This course builds on Adult Health I content to include high risk disease processes with associated nursing care. Emphasis is placed on the interaction between the client, family, nursing and the environment to result in optimal client outcomes. This five hour credit course consists of three hours of didactic/discussion and two hours of clinical lab. Prerequisites: NURSE 342, NURSE 364, NURSE 366

NURSE 362 Management Of Adult Health II
This medical-surgical course focuses on application of the nursing process to the delivery and the management of adult clients across the care continuum. This course builds on Adult Health I content to include high risk disease processes with associated nursing care. Emphasis is placed on the interaction between the client, family, nursing and the environment to result in optimal client outcomes. This five hour credit course consists of three hours of didactic/discussion and two hours of clinical lab. Prerequisites: NURSE 342, NURSE 364, NURSE 366

NURSE 364 Management Of Maternal & Family Health
This course focuses on the application of the nursing process in the adaption of the childbearing family. Emphasis is placed on adaption during pregnancy, labor, birth and postpartum period. Key concepts to be addressed include maternal, fetal, neonatal and family adaption throughtout the maternity cycle, common alterations during the cycle and culturally sensitive, family-centered nursing care. Maternal, fetal and neonatal physiology, pathophysiology and pharmacology will be addressed. Two credit hours didactic and two credit hours for clinical practice (120 clinical hours) are required. Prerequisites: NURSE 256 and NURSE 262

NURSE 395 Pathophysiology
This course will focus on alterations in biologic processes that affect the body's internal homeostasis. A conceptual approach will be used to emphasize general principles of pathophysiology. The etiology, pathogenesis, clinical manifestations, and sequelae of various alterations of human structure and function will be examined. Knowledge from the basic and clinical sciences will be integrated. Prerequisites: Admission to the Nursing major or special permission from instructor.

NURSE 398 Clinical Applications Of Pathophysiology
This nursing elective is designed to guide students through self-directed and in-depth analysis of selected diagnoses that are common to clinical practice and represent major concepts of pathophysiology, evaluation, and management that can be applied to many other illnesses. With faculty guidance, students will work in small groups to comprehensively review and analyze a selected clinical case for presentation and discussion with peers. One case from each of the following major body systems will be presented by student groups: cardiovascular pulmonary, cancer, endocrine, hematologic, immunologic, digestive, neurological, musculoskeletal, and genitourinary. Students are expected to attend and actively participate in all of the case presentations through completion of assigned readings, preparatory review of current literature, active listening, and comprehensive peer evaluation. Students will present and facilitate discussion within the large group of selected current literature following each case
NURSE 401 Health Assessment For Clinical Practice
This course is designed to provide a systematic approach to the physiological, psychological, socio-cultural and developmental assessment of individuals emphasizing findings considered to be within normal limits. The health history is emphasized as a tool for assessing mental and physical status. This course is designed for students with previous health care education, including knowledge of biochemical functions of systems and concepts of normal. This course consists of guided self-study and on-site clinical practicum. Prerequisites: Admitted into RN-BSN program or permission of instructor. Offered: Fall/Spring

NURSE 403A Comparative Weight Loss I
This course explores the bio/psycho/social aspects of weight gain and obesity and compares common weight loss methods according to risk, benefits, and long term and short term implications. Correlations between lifestyle issues such as diet, sleep, stress, and exercise will be explored. Specific topics that will be addressed include risks of of overweight/obesity; common psychological issues for the overweight/obese; societal perceptions and barriers for overweight/obese individuals. This course consists of one hour if didactic work with one module per week for four weeks.

NURSE 403B Comparative Weight Loss II
This course explores the bio/psycho/social aspects of weight gain and obesity and compares common weight loss methods according to risk, benefits, and long term and short term implications. Correlations between lifestyle issues such as diet, sleep, stress, and exercise will be explored. Comparison of common medically recommended diets and diet programs and their efficacy/risks; exercise requirements for weight loss and weight maintenance. This course consists of one hour if didactic education with one module per week for four weeks.

NURSE 403C Comparative Weight Loss 3
This course explores the bio/psycho/social aspects of weight gain and obesity and compares common weight loss methods according to risk, benefits, and long term and short term implications. Comparison of pharmacologic weight loss options ad their efficacy/risks; non-prescription medications/nutraceuticals for weight loss and their efficacy/risks; and bariatric surgeries and efficacy/risks. This course consists of one hour of didactic work with one module per week for four weeks.

NURSE 430A Experience Of Health In Aging: Physiological & Cognitive Aspects
This one-credit hour course is designed for students interested in understanding the role of health in the aging population. The 430A course will focus primarily on physiologic and cognitive functioning of the older adult. Theoretical, empirical and applied knowledge of the aging process is presented. This knowledge is utilized in assessing and interpreting the physiological and psychological influences on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population. Offered: Winter

NURSE 430B The Experience Of Health In Aging:Relationships & The Environment
This one-credit hour course is designed for students interested in understanding the role of health, relationships in the aging population. The N430B course will focus primarily on loss/grief and relationships environment and as these relate to the older adult. theoretical, empirical and applied knowledge of the aging process is presented. This knowledge is utilized in assessing and interpreting the influences of relationships, intimacy, loss, grief, and dying on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population. Offered: Winter

NURSE 430C The Experience Hlth In Aging:Community,Systems & Service Delivery
This one-credit hour course is designed for students interested in understanding the role of health, community, systems and service delivery in the aging population. Selected special issues (such as fluid and continence, medication use, pain and comfort, bone/joint problems) will also be discussed. The N430C course will focus primarily on community, health systems and service delivery as these relate to the older adult. Theoretical, empirical and applied knowledge on aging and the health system and delivery process is presented. This knowledge is utilized in assessing and interpreting the influences of the community and health care delivery systems on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population.

NURSE 430C The Experience Hlth In Aging:Community,Systems & Service Delivery
This one-credit hour course is designed for students interested in understanding the role of health, community, systems and service delivery in the aging population. Selected special issues (such as fluid and continence, medication use, pain and comfort,
bone/joint problems) will also be discussed. The N430C course will focus primarily on community, health systems and service delivery as these relate to the older adult. Theoretical, empirical and applied knowledge on aging and the health system and delivery process is presented. This knowledge is utilized in assessing and interpreting the influences of the community and health care delivery systems on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population.

NURSE 432A Holistic Health Care: Medicinal Plants & Herbs
This course provides an in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will cover medicinal plants and herbs and related topics. Prerequisite: None Offered: Fall

NURSE 432A Holistic Health Care: Medicinal Plants & Herbs
This course provides an in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will cover medicinal plants and herbs and related topics. Prerequisite: None Offered: Fall

NURSE 432B Holistic Health Care: Energy Medicine
This course provides an in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Energy Medicine and related topics.

NURSE 432B Holistic Health Care: Energy Medicine
This course provides an in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Energy Medicine and related topics.

NURSE 432C Holistic Health Care: Relaxation Techniques
This course provides an in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Relaxation Techniques and related topics. Prerequisite: None Offered: Fall

NURSE 432C Holistic Health Care: Relaxation Techniques
This course provides an in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Relaxation Techniques and related topics. Prerequisite: None Offered: Fall

NURSE 432D Holistic Health Care: Chinese Medicine and Hypnosis
This course provides an in depth exploration to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Chinese Medicine, Hypnosis and related other topics.

NURSE 432D Holistic Health Care: Chinese Medicine and Hypnosis
This course provides an in depth exploration to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non traditional cultural oriented healing modalities. Relevant to all health care providers and health care consumers, the content will include Chinese Medicine, Hypnosis and related other topics.

NURSE 433 Parish Nurse Health Ministry Basic Preparation Course
This course introduces students to the practice of Parish Nurse Health Ministry which promotes and preserves the health of clients in community faith-based settings. Content will include the role of the congregation in health, healing, and wholeness; the theology of health, healing and wholeness, history and philosophy of Parish Nursing, ethics of Parish Nursing; self care for Parish Nurses; assessment of individuals, families, and congregations; accountability and documentation, roles of the Parish Nurse-Integrator of faith and health, Personal Health Counselor, Health Educator, Referral Agent, Coordinator of Volunteers, Developer of Support Groups, and Health Advocate initiating a Parish Nurse Program; functioning with a ministerial team; health promotion and maintenance programs; and loss. 32 classroom hours; 13 independent library hrs. Prerequisite: RN license Offered: Winter/Fall

This course is designed to examine, in depth, the rich and unique development of some major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Past healthcare trends, the societal importance of helping, and the history of nursing education will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times.Offered: Summer and
**NURSE 434A** History of Healthcare - Trends/Issues Impacting Healthcare and Healthcare Professions
This course is designed to examine, in depth, the rich and unique development of some major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Past healthcare trends, the societal importance of helping, and the history of nursing education will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Summer and Spring

**NURSE 434B** History of Healthcare - Trends/Issues in Public Health, Medicine, and Physical Therapy
This course was designed to examine, in depth, the rich and unique development of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Trends and issues in public health, medicine, and physical therapy will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Summer and Spring

**NURSE 434C** History of Healthcare - Trends/Issues in Nursing, Dentistry, and Pharmacy Organizations
This course is designed to examine, in depth, the rich and unique development of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Past trends and issues in nursing, dentistry, and pharmacy organizations will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Summer and Spring

This course is designed to examine the rich and unique development of the major American healthcare fields as disciplines, professions, arts, and sciences from a historical perspective. Past trends and issues in social work, the future of public health, and the historical effects of cultural diversity will be identified and discussed. The social, philosophical, cultural, and political forces which have impacted the course of these topics will be examined from ancient to modern times. Offered: Summer and Spring

**NURSE 462** Special Topics
This course is designed to explore current issues and trends influencing nursing practice. Economical, political, social and cultural issues are analyzed as they relate to interdisciplinary healthcare topics. Special Topics is aimed at preparing nursing students for immediate and long term milestones in their practice, which includes NCLEX licensure study, current clinical and practice issues, and exposure to advance nursing roles in practice and research. Prerequisites: nursing 465 and Nursing 467

**NURSE 465** Management Of Community Health Nursing
This course focuses on applying the nursing process to the care of target community population and the individual. Emphasis is placed on health promotion and disease prevention. Discussion will include epidemiological, social, political, economic and cultural factors that influence the health of a population. The clinical components will consist of application of the nursing process to identify, prioritize, and meet the health needs of aggregates across the lifespan. The four hour course consists of two hours of didactic/discussion and two hours of clinical/lab. (120 hours) Prerequisites: Nursing 360 and Nursing 362. Offered: Fall

**NURSE 467** Management Of Critical & Emergent Care
This course focuses on applying the nursing process to the care of critically ill clients. Key concepts are assumption, integration, and prioritization of information to take decisive client-focused action. Students will manage appropriately the interface between client and technology so that a safe, respectful, and caring environment is established and maintained. Nursing knowledge of
cardiovascular/ hemodynamic monitoring and acute management of pulmonary, neurological, renal, gastrointestinal, shock and traumatic emergencies is included. This five hour course consists of three hours didactic/ discussion and two hours clinical/lab. Prerequisites: NURSE 360 and NURSE 362

NURSE 467 Management Of Critical & Emergent Care
This course focuses on applying the nursing process to the care of critically ill clients. Key concepts are assumption, integration, and prioritization of information to take decisive client-focused action. Students will manage appropriately the interface between client and technology so that a safe, respectful, and caring environment is established and maintained. Nursing knowledge of cardiovascular/ hemodynamic monitoring and acute management of pulmonary, neurological, renal, gastrointestinal, shock and traumatic emergencies is included. This five hour course consist of three hours didactic/ discussion and two hours clinical/lab. Prerequisites: NURSE 360 and NURSE 362

NURSE 468 Effectiveness In Complex Health Systems
This leadership course focuses on effectiveness in complex health systems, by building upon acquired personal and interpersonal knowledge, skills and effectiveness in health outcomes. Organizational culture and systems, leadership and management theories, cultural competence, internal and external politics, and the impact of future managerial and societal paradigm changes on health care and health care delivery systems are presented. Knowledge of budgeting and health care finance, use of the legislative system, quality management, customer service, and leadership and management styles are explored. This five hour course consists of four hours of didactic/ discussion and one hour of clinical/ lab. Prerequisites: NURSE 467 and NURSE 465
Restrictions: Minimum grade of "C" in all courses

NURSE 468 Effectiveness In Complex Health Systems
This leadership course focuses on effectiveness in complex health systems, by building upon acquired personal and interpersonal knowledge, skills and effectiveness in health outcomes. Organizational culture and systems, leadership and management theories, cultural competence, internal and external politics, and the impact of future managerial and societal paradigm changes on health care and health care delivery systems are presented. Knowledge of budgeting and health care finance, use of the legislative system, quality management, customer service, and leadership and management styles are explored. This five hour course consists of four hours of didactic/ discussion and one hour of clinical/ lab. Prerequisites: NURSE 467 and NURSE 465
Restrictions: Minimum grade of "C" in all courses

NURSE 472 Clinical Internship
This is the final application course designed to complement didactic content from the core-nursing component of the pre-licensure baccalaureate program. Within this course the student will integrate and apply knowledge acquired in didactic course work and from previous clinical experiences. Students will integrate an increasingly complex knowledge base with an emphasis on developing effectiveness: a) personally; b) interpersonally, and c) in the health management of clients within the complexity of the hospital system. In collaboration with preceptors from the clinical unit, the students will manage direct care for clients in the hospital setting. Five credit hours of clinical practice (300 hours) are required. Prerequisites: NURSE 465 and NURSE 467
Co-requisite: NURSE 468 Offered: Spring

NURSE 476 Scientific Inquiry
This course focuses upon the development of those skills necessary to apply research finding to the evidence-based care of nursing. This application requires that students develop the skills to intelligently and critically read and utilize current research literature. The specific steps in the research process. Including ethical issues, are presented and discussed with emphasis upon the identification of quality research through critical analysis of research reports. Prerequisite: Pre-licensure students; Completion of 14 hours of clinical coursework, e.g. NURSE 262, NURSE 364, NURSE 366 Pre-Co-Requirement: Pre-licensure and RN-BSN nursing students and Bachelor of Health Science students; N345 or an upper-level statistics course. Offered: Spring/Summer

NURSE 476 Scientific Inquiry
This course focuses upon the development of those skills necessary to apply research finding to the evidence-based care of nursing. This application requires that students develop the skills to intelligently and critically read and utilize current research literature. The specific steps in the research process. Including ethical issues, are presented and discussed with emphasis upon the identification of quality research through critical analysis of research reports. Prerequisite: Pre-licensure students; Completion of 14 hours of clinical coursework, e.g. NURSE 262, NURSE 364, NURSE 366 Pre-Co-Requirement: Pre-licensure and RN-BSN nursing students and Bachelor of Health Science students; N345 or an upper-level statistics course. Offered: Spring/Summer

NURSE 481 Block I: Tools For Personal Effectiveness
This is the first in the four-course sequence. The student will discover that the foundation for professional nursing practice is personal effectiveness. Personal effectiveness is contingent upon an understanding of the historical roots of the profession, the meaning of professionalism, image and power bases, professional standards, moral development, political role socialization and professional values. Personal effectiveness is enhanced through critical reflection of personal perspectives and biases, valuing and use of theory and research, critical thinking and decision-making, informatics' technology, the ability to manage time and
stress, and the use of a career plan and informatics. Pre-Corequisite: ENGLISH 225

NURSE 481 Block I: Tools For Personal Effectiveness
This is the first in the four-course sequence. The student will discover that the foundation for professional nursing practice is personal effectiveness. Personal effectiveness is contingent upon an understanding of the historical roots of the profession, the meaning of professionalism, image and power bases, professional standards, moral development, political role socialization and professional values. Personal effectiveness is enhanced through critical reflection of personal perspectives and biases, valuing and use of theory and research, critical thinking and decision-making, informatics' technology, the ability to manage time and stress, and the use of a career plan and informatics. Pre-Corequisite: ENGLISH 225

NURSE 482 Block II: Tools For Interpersonal Effectiveness
This is the second in the four-course sequence. The student will discover that interpersonal effectiveness is a prerequisite to effective management of the care of humans and teams. Interpersonal effectiveness is contingent in an understanding of professional care and caring, ethics in health care, legalities of practice, communication theories and the dynamics of groups and teams. Interpersonal effectiveness is enhanced through the use of such skills as conflict resolution and negotiation, managing change, marketing, team membership, group management, political awareness, technology utilization and communication techniques. Content appropriate to these areas will be covered within this course. Prerequisites: NURSE 481

NURSE 482 Block II: Tools For Interpersonal Effectiveness
This is the second in the four-course sequence. The student will discover that interpersonal effectiveness is a prerequisite to effective management of the care of humans and teams. Interpersonal effectiveness is contingent in an understanding of professional care and caring, ethics in health care, legalities of practice, communication theories and the dynamics of groups and teams. Interpersonal effectiveness is enhanced through the use of such skills as conflict resolution and negotiation, managing change, marketing, team membership, group management, political awareness, technology utilization and communication techniques. Content appropriate to these areas will be covered within this course. Prerequisites: NURSE 481

NURSE 483 Block III: Effectiveness In Human Health Outcomes
This is the third in the four-course sequence. It builds upon the personal and interpersonal skills acquired in the first two block courses and focuses on effectiveness in human health outcomes. The student will discover that effectiveness in human health outcomes is a primary goal in the delivery of an optimum continuum of health care that encompasses health promotion, disease prevention and illness care across the lifespan. Achieving effectiveness in human health outcomes across the wellness-illness continuum and the individual-to-community continuum is contingent on acquiring an understanding of epidemiology, levels of care, communicable disease control, case management, theories applicable to aggregate populations, cultural competence, evidence-based care and information technology. Prerequisites: NURSE 482

NURSE 483 Block III: Effectiveness In Human Health Outcomes
This is the third in the four-course sequence. It builds upon the personal and interpersonal skills acquired in the first two block courses and focuses on effectiveness in human health outcomes. The student will discover that effectiveness in human health outcomes is a primary goal in the delivery of an optimum continuum of health care that encompasses health promotion, disease prevention and illness care across the lifespan. Achieving effectiveness in human health outcomes across the wellness-illness continuum and the individual-to-community continuum is contingent on acquiring an understanding of epidemiology, levels of care, communicable disease control, case management, theories applicable to aggregate populations, cultural competence, evidence-based care and information technology. Prerequisites: NURSE 482

NURSE 484 Block IV: Effectiveness In Complex Health Systems
This is the final course in the four-course sequence. Students will build upon the knowledge and skills acquired in the prior three course in order to examine the essentials of structure and designs, behavior and culture, synergy, workplace diversity, health care finance, and power and politics within complex health systems. Organizational theories, leadership, management and nursing's social responsibility in an emerging global health care environment will also be explored. Prerequisite: Nursing 483

NURSE 485 Application To Practice I
This course is the first of two clinical application courses designed to complement didactic content from the four-course block sequence (NURSE 481-NURSE 484). The student will discover that the knowledge they are acquiring in didactic course work can be immediately applied to practice. The students will integrate an increasingly complex knowledge base with an emphasis on developing effectiveness: a) personally; b) interpersonally and; c) in the health management of populations if clients within the complexity of community based organization, practice settings, and communities. Student cohort group-in collaboration with preceptors from community based organizations and faculty identify field experiences, projects, and direct care experiences based on real need. The processes and outcomes of those experiences will be collective and provide solutions for the health care community. Projects and experiences may therefore be complex, extending across two semesters. Prerequisites: NURSE 481; Pre or Co-requisite: NURSE 482 and 483. Offered Spring and Fall.
NURSE 486 Application To Practice II
This course is the second of two clinical application courses designed to complement didactic content from the four-course block sequence (NURSE 481-NURSE 484) Working in cohort teams, the students will apply new skills and knowledge to real issues and problems in the delivery of nursing care with an emphasis on teamwork performance and action plan implementation, evaluation, and revision. The students will integrate an increasingly complex knowledge base with an emphasis on developing effectiveness: a) personally; b) interpersonally; and c) in the health management of populations of clients within complex community based organizations and faculty will further develop and/or implement the approved NURSE 485 plan of action. The processes and outcomes of those experiences will be collective and provide solutions for the health care community. Prerequisites: NURSE 483, NURSE 485. CO-Requisite: NURSE 484 Offered: Winter

NURSE 487 Writing For Nursing Sciences
This course is a companion course to the core nursing component of the baccalaureate program. Within this course the student will discover that good writing is essential in the nursing profession for effectively transmitting nursing practice and professional and academic dialogue. Regardless of whether the writing is on a patient's chart, in a grant proposal, or a formal presentation, professional writing must be clear, precise, logical, and appropriate to the situation. The art and process of writing is complex and can only be learned by practicing writing. Content appropriate to the enhancement of professional writing skills will be covered within this class. Students will examine writing processes, learn to find and use resources for writing, write and present several types of papers for nursing. Prerequisites: Concurrent enrollment in NURSE 484 Offered: Winter

NURSE 490 Special Topics
A course of study in a special area of interest in nursing under individual faculty direction. Prerequisite: Consent of instructor.

NURSE 490BA Special Topics

NURSE 490BB Special Topics

NURSE 490BC Special Topics

NURSE 490H1 Special Topics Nursing

NURSE 490H4 Special Topics Nursing

NURSE 490HA Special Topics

NURSE 490HI Special Topics

NURSE 490WV Special Topics

Health Sciences (HLSC)
HLSC 101 Introduction to Health Sciences
This course is designed as an introduction to the field in health science. Students will explore the basic concepts related to this field including understanding one's role in health careers, protection against communicable diseases, facilities related to the healthcare profession, health insurance, ethics in healthcare, and workplace injuries. The course will also introduce the student to a wide array of health sciences professions, including, but not limited to, environmental health science, occupational health, ergonomics, radiological health, toxicology, clinical medicine, dental and nursing practice, drug discovery and safety assessment in the pharmaceutical/chemical industry, biotechnology, and careers in government agencies.

HLSC 110 Personal Wellness
This course presents an overview of health behaviors and actions needed to achieve a combination of physical, mental, and social well-being through intelligent lifestyle choices. Effective strategies for staying healthy and improving one's health will be explored. Elements of stress management, preservation of physical and mental well-being, personal hygiene and strong social relationships will be discussed.
HLSC 120 Anatomy & Physiology I
This course examines the structure and function of the human body from the molecular to the organismal level as they interact among all body systems across the life span. Instructors also attempt to correlate course materials with the clinical aspects of the application of physiological knowledge. Co-requisite laboratory exercises provide practical application of theoretical concepts. In this first term of two-term course, molecular biology, biochemistry, cellular biology, and histology are studied as well as the integumentary, musculoskeletal, and nervous systems. Restrictions: Pre-nursing or Health Sciences students Offered: Fall

HLSC 230 Health Issues in Aging
This course focuses on promotion and maintenance of the health of the older adult population. The physiological and psychological domains, pharmacological, and nutritional considerations as affected by theories on aging socio-cultural influences, legal and ethical issues, and health care resources pertaining to older adults are explored. Assessments problems and strengths, interventions and outcomes specific to the older adult population are discussed. Opportunities are provided for interaction with the older adult population. Prerequisite: Admission into the BHS program.

HLSC 252 Human Growth and Development
This course provides a basic introduction to the theory for human growth and development across the life span. Emphasis is placed upon the biological and the psychosocial aspects of growth and development. Content is organized in a modified chronological order dividing information into major stages of growth and development across the life span.

HLSC 345 Quantitative Analysis in the Health Sciences
This course focuses upon the skills required for the utilization of scientific findings in evidence-based care. The conceptual basis of descriptive and inferential statistics found in the properties of the normal distribution comprise the core of these skills. Using the normal distribution as a structure for understanding descriptive and inferential procedures, the course presents information necessary to the selection, computation and interpretation of basic statistics relevant to evidence-based care in the health sciences. Discussions of variables, measurement and tabular and graphic presentation of data precede the development of computation skills.

HLSC 356 Spanish for Health Care Pre-Professionals
This course focuses on conversational Spanish, medical terminology in Spanish, and written/read Spanish. This course will provide the student with basic knowledge that will allow communication with clients who speak/read/write Spanish. This is a fast paced course and will require practice of the language outside of the classroom in order to master the material presented. Prerequisite: Permission of instructor.

HLSC 403A Comparative Weight Loss I
This course explores the bio/psycho/social aspects of weight gain and obesity and compares common weight loss methods according to risk, benefits, and long term and short term implications. Correlations between lifestyle issues such as diet, sleep, stress, and exercise will be explored. Specific topics that will be addressed include risks of of overweight/obesity; common psychological issues for the overweight/obese; societal perceptions and barriers for overweight/obese individuals. This course consists of one hour if didactic work with one module per week for four weeks.

HLSC 403B Comparative Weight Loss II
This course explores the bio/psycho/social aspects of weight gain and obesity and compares common weight loss methods according to risk, benefits, and long term and short term implications. Correlations between lifestyle issues such as diet, sleep, stress, and exercise will be explored. Comparison of common medically recommended diets and diet programs and their efficacy/risks; exercise requirements for weight loss and weight maintenance. This course consists of one hour if didactic education with one module per week for four weeks. Pre/Co-requisites: HLSC 403A.

HLSC 403C Comparative Weight Loss 3
This course explores the bio/psycho/social aspects of weight gain and obesity and compares common weight loss methods according to risk, benefits, and long term and short term implications. Comparison of pharmacologic weight loss options ad their efficacy/risks; non-prescription medications/nutraceuticals for weight loss and their efficacy/risks; and bariatric surgeries and efficacy/risks. This course consists of one hour of didactic work with one module per week for four weeks. Pre or co-requisite: HLSC 403A.

HLSC 476 Scientific Inquiry
This course focuses on the development of those skills necessary to apply research findings to the evidence-based health care. This application requires that students develop the skills to intelligently and critically read and utilize current research literature. The specific steps in the research process are presented and discussed with emphasis upon the identification of quality research through critical analysis of research reports. Prerequisites: N345/HLSC 345; Quantitative Analysis in the Health Sciences.
HLSC 490 Special Topics
A course of study in a special area of interest in health sciences under individual faculty direction.

HLSC 490DH Special Topics
A course of study in a special area of interest in health sciences under individual faculty direction.

HLSC 490HS Special Topics
A course of study in a special area of interest in health sciences under individual faculty direction.

HLSC 490MT Special Topics
A course of study in a special area of interest in health sciences under individual faculty direction.

HLSC 490SS Special Topics
A course of study in a special area of interest in health sciences under individual faculty direction.

HLSC 490WC Special Topics
A course of study in a special area of interest in health sciences under individual faculty direction.
Graduate Courses

College of Arts & Sciences Graduate Courses

Arts and Sciences (A&S)

A&S 5500 Interdisciplinary Colloquium On Aging
This course will introduce students to gerontology as a field of study and as a profession. The context for the emergence of the field is set in important demographic transitions of the 20th century. Identification and understanding of major issues and controversies in the field will help locate the contributions of a range of disciplines to aging studies. The connection of these issues with the development of social policies will be discussed.

A&S 5500 Interdisciplinary Colloquium On Aging
This course will introduce students to gerontology as a field of study and as a profession. The context for the emergence of the field is set in important demographic transitions of the 20th century. Identification and understanding of major issues and controversies in the field will help locate the contributions of a range of disciplines to aging studies. The connection of these issues with the development of social policies will be discussed.

A&S 5500C Interdisciplinary Colloquium On Aging III

A&S 5500C Interdisciplinary Colloquium On Aging III

A&S 5500L Special Readings Topics/Philosophy

A&S 5500L Special Readings Topics/Philosophy

A&S 5500P Special Topics-Readings Psychology

A&S 5500P Special Topics-Readings Psychology

A&S 5500Q Special Readings/Topics Theatre

A&S 5500Q Special Readings/Topics Theatre

A&S 5501 Special Readings/Topics
This is a designated Arts and Sciences course which gives all departments in the College the flexibility to offer, on demand and as the need arises, a graduate-level readings course in a particular area of specialization in any discipline in the College. The individual departments determine the content of the course in any given semester in the same manner as any reading course, special topics, or independent study is presently handled. The departments are responsible for approving individuals or groups for the course and determine whether or not the course will be included as a part of a post-baccalaureate degree in their disciplines.

A&S 5501 Special Readings/Topics
This is a designated Arts and Sciences course which gives all departments in the College the flexibility to offer, on demand and as the need arises, a graduate-level readings course in a particular area of specialization in any discipline in the College. The individual departments determine the content of the course in any given semester in the same manner as any reading course, special topics, or independent study is presently handled. The departments are responsible for approving individuals or groups for the course and determine whether or not the course will be included as a part of a post-baccalaureate degree in their disciplines.

A&S 5501B Special Topics: Critical Thinking In Social Studies

A&S 5501D Special Readings/Topics

A&S 5501E Special Readings/Topics

A&S 5501E Special Readings/Topics

A&S 5501K Special Topics

A&S 5502 Introduction To African American Studies
This course provides an introduction to the contexts, theories, and methodologies that undergird African American studies. In addition to substantial time spent covering particular research skills and resources, students will also be introduced to African
American culture and the issues related to African studies from several perspectives: history, literature, sociology, communication studies, and the like. Influences and perspectives from Africa, the Caribbean, and South America will also be covered. The course will thus provide a broad background in African American culture and history, an introduction to the methodologies of several disciplines, and discussion of particular contemporary and historical issues such as slavery, segregation and integration, the Civil Rights Movement, Pan-Africanism, Afrocentrism, and current political debates.

**A&S 5505 Career Education And Transition In Special Education**
This course is designed to increase awareness and knowledge about current disabilities legislation, vocational education, vocational rehabilitation, quality transition programs, school to work, self advocacy, workplace accommodations and comprehensive life skills learning. Prerequisites: EDUP-SP 407 or equivalent. Offered: On demand.

**A&S 5505 Career Education And Transition In Special Education**
This course is designed to increase awareness and knowledge about current disabilities legislation, vocational education, vocational rehabilitation, quality transition programs, school to work, self advocacy, workplace accommodations and comprehensive life skills learning. Prerequisites: EDUP-SP 407 or equivalent. Offered: On demand.

**A&S 5509 Methods Of Inq: Research Issues And Methods In The Liberal Arts**
This seminar is required of all first semester participations in the Master of Arts in the Liberal Studies program. Must be taken concurrent with either A&S 5510, A&S 5511, A&S 5512 or A&S 5513. This course serves as an introduction to various methods of inquiry and research in the humanities, social sciences, and sciences. Offered during four week-ends, the course is taught in conjunction with the week-day class offered that term (A&S 5510 through A&S 5513). This course includes graduate level instruction in library research use of computer generated research tools and a strong emphasis on academic writing. Offered fall and winter semesters.

**A&S 5509 Methods Of Inq: Research Issues And Methods In The Liberal Arts**
This seminar is required of all first semester participations in the Master of Arts in the Liberal Studies program. Must be taken concurrent with either A&S 5510, A&S 5511, A&S 5512 or A&S 5513. This course serves as an introduction to various methods of inquiry and research in the humanities, social sciences, and sciences. Offered during four week-ends, the course is taught in conjunction with the week-day class offered that term (A&S 5510 through A&S 5513). This course includes graduate level instruction in library research use of computer generated research tools and a strong emphasis on academic writing. Offered fall and winter semesters.

**A&S 5510 Method Of Inquiry: An Interdisciplinary Study Of The 1930S**
This course is one of a series in the Master of Arts in Liberal Studies program which studies American culture, history, and science by examining major decades of the 20th-century. This seminar offers an in-depth study of America's Great Depression during the 1930s and how the problems of this country related to events across the globe. Readings, lectures, and discussions focus on historical, economic, political, and cultural issues in the face of national conflict. Sessions cover such topics as the emergence of Regionalist artists in the Midwest, the contributions of Kansas City jazz to the creation of a new art form, African-American writers, the role of women in the Depression, economic causes of the Depression, the Pendergast Machine, and scientific developments between the two World Wars. Offered: every fourth semester or on demand.

**A&S 5510 Method Of Inquiry: An Interdisciplinary Study Of The 1930S**
This course is one of a series in the Master of Arts in Liberal Studies program which studies American culture, history, and science by examining major decades of the 20th-century. This seminar offers an in-depth study of America's Great Depression during the 1930s and how the problems of this country related to events across the globe. Readings, lectures, and discussions focus on historical, economic, political, and cultural issues in the face of national conflict. Sessions cover such topics as the emergence of Regionalist artists in the Midwest, the contributions of Kansas City jazz to the creation of a new art form, African-American writers, the role of women in the Depression, economic causes of the Depression, the Pendergast Machine, and scientific developments between the two World Wars. Offered: every fourth semester or on demand.

**A&S 5511 Methods Of Inquiry: An Interdisciplinary History Of The 1940S**
This course examines a decade, in this case the 1940s, from a variety of perspectives. The second world war stimulated profound changes in science, ethics, government, economics, social structures, and cultural constructions of race, class, and gender. In essence, this course will examine how America in the 1940s became increasingly "modern" and assesses the impact of those changes on the nation and the world.

**A&S 5511 Methods Of Inquiry: An Interdisciplinary History Of The 1940S**
This course examines a decade, in this case the 1940s, from a variety of perspectives. The second world war stimulated profound changes in science, ethics, government, economics, social structures, and cultural constructions of race, class, and gender. In essence, this course will examine how America in the 1940s became increasingly "modern" and assesses the impact of those changes on the nation and the world.
**A&S 5512 Method Of Inquiry: An Interdisciplinary History Of The 1950S**
This course examines a decade, in this case the 1950s, from a variety of perspectives. This course has three major themes: Domestic Politics, Foreign Relations and Scientific Development. Within these three major themes, a broad spectrum of human activity in the arts and sciences will be examined.

**A&S 5513 Methods Of Inquiry: An Interdisciplinary Study Of The 1960S**
As part of the Master of Arts in Liberal Studies series, this course examines a decade, in this case the 1960s, from a variety of perspectives. The Vietnam War stands as a turning point in the ways in which Americans, especially young Americans, viewed their country, the world, and, most importantly, themselves. This decade was crucial to the history of the civil rights movement, the women's liberation movement and American judicial process.

**A&S 5514 Critical Choices: Methods Of Inquiry In Science**
The course surveys current scientific developments and how these developments influence our society, whose citizens must make major policy decisions in areas with significant scientific content. Offered: On Demand

**A&S 5520 Critical Choices: Final Research Project And Capstone Seminar**
This seminar is designed as a capstone experience for students in the last semester of their studies in the Master of Arts in Liberal Studies program. Working with three faculty members of the graduate faculty (one member each from the humanities, the social sciences, and the sciences), each student defines a final research project, spends the semester developing it, and presents his or her findings to the seminar at the conclusion of the course. Each project is intended to be thought-provoking and to be researched from an interdisciplinary point of view.

**A&S 5535 Directed Studies In Liberal Arts**
Open to students in the Master of Arts in Liberal Studies Program, this course offers students the opportunity to pursue independent work at the graduate level on selected topics of an interdisciplinary nature, working with faculty members from at least two different departments. The course may not be repeated beyond a total of three credit hours. Permissions of the MALS Programs Director required.

**A&S 5540 Liberal Arts Thesis**
Open to students in the Masters of Arts in Liberal Studies Program who wish to include a written thesis in their program of studies. The course may not be repeated beyond a total of three credit hours. Permission of the MALS Program Director required.
A&S 5550 Seminar In Social Science Perspectives Study Of Community

A&S 5550 Seminar In Social Science Perspectives Study Of Community

A&S 5571A Seminar In The Social Sciences
This is a designated Arts and Sciences course which gives all departments in the College the flexibility to offer, on demand and as the need arises, a graduate level seminar in a particular area of specialization in any discipline in the college. The individual departments determine the content of the course in any given term in the same manner as any seminar is currently handled. The departments are responsible for approving individuals or groups for the course and determine whether or not the course will be included as a part of post baccalaureate degree in their disciplines.

A&S 5571A Seminar In The Social Sciences
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A&S 5572 Seminar In Philosophy Of Science I

A&S 5572 Seminar In Philosophy Of Science I

A&S 5591 Practicum In Community Social Science Research

A&S 5591 Practicum In Community Social Science Research

A&S 5592 Field Practicum In Aging
Students spend 180-480 hours in a field placement with the supervision in a community agency or organization which services or advocated for older persons and keep a journal documenting and reflecting on the practicum activities and experiences, particularly as related to gerontological theory and research. Students will study a particular subject relevant to their placement and describe this in a written project.

A&S 5592 Field Practicum In Aging
Students spend 180-480 hours in a field placement with the supervision in a community agency or organization which services or advocated for older persons and keep a journal documenting and reflecting on the practicum activities and experiences, particularly as related to gerontological theory and research. Students will study a particular subject relevant to their placement and describe this in a written project.

A&S 5899 Required Graduate Enrollment

A&S 5899 Required Graduate Enrollment

A&S 699 Research And Dissertation

Anthropology(ANTHRO)
ANTHRO 5530 Anthropology Of Gender
This class explores theories of the social construction of gender in cross-cultural contexts. It will also explore global issues of diversity, local and international politics, the economy and work, education, etc.

ANTHRO 5530 Anthropology Of Gender
This class explores theories of the social construction of gender in cross-cultural contexts. It will also explore global issues of
diversity, local and international politics, the economy and work, education, etc.

ANTHRO 5531 Feminist Theories
This class introduces the major feminist theories and their primary authors over the last 200 years. The class takes both an historical (we begin with two millennia of male-centered theories about women) and a conceptual approach (theories are grouped by common ground) and familiarizes the student with both the historical processes that necessitate feminist theories as well as with the breadth of the historically and currently available scholarship. Graduate students are expected to fulfill all undergraduate requirements at graduate-level quality, including independent research components; in addition, graduate students are required to be prepared to lead class discussions. Prerequisites: Introduction to Women's Studies Offered: Every Winter

ANTHRO 5531 Feminist Theories
This class introduces the major feminist theories and their primary authors over the last 200 years. The class takes both an historical (we begin with two millennia of male-centered theories about women) and a conceptual approach (theories are grouped by common ground) and familiarizes the student with both the historical processes that necessitate feminist theories as well as with the breadth of the historically and currently available scholarship. Graduate students are expected to fulfill all undergraduate requirements at graduate-level quality, including independent research components; in addition, graduate students are required to be prepared to lead class discussions. Prerequisites: Introduction to Women's Studies Offered: Every Winter

ANTHRO 5537 Anthropology of Religion
This course explores the ways anthropologists have gone about studying religion from the opening decades of the 20th century to present. The course introduces students to the diversity of human religious expression and experience through anthropological literature and to the diversity of anthropological expression especially as it has been revealed in social scientific studies of religious life. The course is designed to generate a critical dialogue about the special role that religion has played in the ongoing anthropological engagement with ""other"" societies and cultures over time.

ANTHRO 5551 Racism In American Culture
This course will examine racism in the United States, using a systems perspective. Particular attention will be paid to the ""race"" concept, and the impact of institutionalized racism on public policy, education, housing and employment. Graduate students will be required to complete additional readings and conduct an in-depth research project by the end of the semester.

ANTHRO 5558 Cultures Of The African Diaspora
The course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion

ANTHRO 5558 Cultures Of The African Diaspora
The course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion

ANTHRO 5573 Latin American Immigrants and Refugees in the U.S.
This course is the study of history, culture and societies of immigrants and US citizens of Latin American heritage living in the U.S.

ANTHRO 5580 Special Studies In Anthropology
An opportunity to explore in depth topics not included in usual course offerings. One or more topics will be announced in advance of registration.

ANTHRO 5580 Special Studies In Anthropology
An opportunity to explore in depth topics not included in usual course offerings. One or more topics will be announced in advance of registration.

ANTHRO 5580CL Cluster Course: Introduction To Women'S Studies

ANTHRO 5580CL Cluster Course: Introduction To Women'S Studies

ANTHRO 5580CO Cc: African American Experience Through The Prism Of Film
This course explores the major themes in the African American experience through film and television. Using anthropological and historical analysis, film reception theory, as well as film and cultural criticism, students study a variety of film genres including silent motion pictures, talkies, musicals, all black cast films, documentaries, Hollywood and blaxploitation movies.
Students will learn about the motion picture industry and pioneer independent Black Filmmakers especially Oscar Micheaux, Spike Lee, and Julie Dash. The course explores myths, stereotypes and images of African Americans in television and film. Students will interact with local people and organizations involved with African American Cinema such as the African American Film Society of Kansas City, Missouri. The course is offered at the GEM Theater in the History 18th & Vine District.

ANTHRO 5580E Special Studies In Anthropology

ANTHRO 5580E Special Studies In Anthropology

ANTHRO 5580J Special Studies In Anthropology

ANTHRO 5580J Special Studies In Anthropology

Art (ART)
ART 5506 Graduate Photography
Photography on the graduate level with individual selection of media and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5506 Graduate Photography
Photography on the graduate level with individual selection of media and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5510 Graduate Painting
Painting on the graduate level with individual selection of medium and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5510 Graduate Painting
Painting on the graduate level with individual selection of medium and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5513 Graduate Graphic Design
Graphic design on the graduate level with individual selection of medium and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5513 Graduate Graphic Design
Graphic design on the graduate level with individual selection of medium and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5515 Graduate Drawing
Drawing on the graduate level with individual selection of media and technique. Student may pursue selected projects on a group or individual basis. May be repeated up to a total of 15 hours.

ART 5515 Graduate Drawing
Drawing on the graduate level with individual selection of media and technique. Student may pursue selected projects on a group or individual basis. May be repeated up to a total of 15 hours.

ART 5520 Graduate Printmaking
Printmaking on the graduate level with individual selection of medium and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5520 Graduate Printmaking
Printmaking on the graduate level with individual selection of medium and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5540 Graduate Electronic Media
Electronic media on the graduate level with individual selection of subject and technique. Permission of the department is required. May be repeated up to a total of 15 hours.
ART 5540 Graduate Electronic Media
Electronic media on the graduate level with individual selection of subject and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5550 Graduate Performance Art
Performance art on the graduate level with individual selection of medium and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5550 Graduate Performance Art
Performance art on the graduate level with individual selection of medium and technique. Permission of the department is required. May be repeated up to a total of 15 hours.

ART 5591 Directed Technical Studies
Individually directed studies or research in selected projects of a technical nature in studio art. Permission of the department is required. May be repeated up to a total of six hours applicable to a degree program.

ART 5591 Directed Technical Studies
Individually directed studies or research in selected projects of a technical nature in studio art. Permission of the department is required. May be repeated up to a total of six hours applicable to a degree program.

ART 5599 Research And Thesis
Production and/or writing of thesis. Usually taken in the last term of candidacy. Permission of the department is required.

ART 5599 Research And Thesis
Production and/or writing of thesis. Usually taken in the last term of candidacy. Permission of the department is required.

ART 5899 Required Graduate Enrollment

ART 5899 Required Graduate Enrollment

Art History (ART-HIST)
ART-HIST 5501 Scope And Methods Of Art History
An exploration of the discipline of art history, including theoretical issues, guiding questions and problems, diverse approaches (historical and current), and research tools. Required of all Art History graduate students and best taken early in one's studies. Prerequisite: Minimum of 9 credit hours of art history.

ART-HIST 5539 Paris in the Age of Rococo
In the early 18th century, Paris overtook Rome as the artistic center of Europe. We explore all of the visual arts during the vibrant "Rococo," the age of Watteau, Chardin, and Boucher.

ART-HIST 5540 Seminar in French Art: Renaissance and Baroque
A history of French art from the time of Louis XII through the Age of Louis XIV, with emphasis on painting and architecture. Prerequisite: Graduate standing and permission of the department.

ART-HIST 5541 Seminar in Northern Baroque Art: The Age of Rubens, Rembrandt, and Wren
The arts of England and the Low Countries in the 17th and early 18th centuries. Emphasis on painting and the graphic arts in the Spanish and Dutch Netherlands, and on architecture in England. Depending on the instructor, the seminar may be offered in conjunction with Art Hist 441WI class. In that event, students attend lectures but do not take the exams. Instead they meet separately at a different time for discussions and their individual presentations. Prerequisite: Graduate standing and permission of the department.

ART-HIST 5547 Seminar in Italian Baroque Art: The Age of Caravaggio, Bernini, and Borromini
Painting, sculpture, and architecture in Italy from the creation of the Baroque style in the late 16th century to the beginnings of the Barochetto era. Depending on the instructor, the seminar may be offered in conjunction with Art Hist 447WI class. In that event, students attend the lectures but do not take the exams. Instead they meet separately at a different time for discussions and their individual presentations. Prerequisite: Graduate standing and permission of the department.

ART-HIST 5548 Seminar in Span Art: El Greco to Goya
A study of Spanish art from the later 15th Century to the Napoleonic invasion. Depending on the instructor, the seminar may be offered in conjunction with Art Hist 448WI class. In that event, students attend lectures but do not take the exams. Instead they
meet separately at a different time for discussion and their individual presentations. Prerequisite: Graduate standing and permission of the department.

**ART-HIST 5561 Traditional and Contemporary Native American Art**

This course aims to inspire students to appreciate the history and aesthetics of traditional and contemporary Native North American arts. We examine cultural and aesthetic continuities between Meso-American and Native North American Arts. Then we explore how Native American arts reflect the history of North America, including influences from Europeans, and conclude with contemporary Native American artists and their incorporation of various global influences. Prerequisites: ART-HIST 315 or permission of instructor.

**ART-HIST 5562 History of Modern Design**

This course examines innovations in design, beginning with the Arts and Crafts movement in the 19th century, surveying all the major design trends of the twentieth century, and concluding with contemporary developments in the age of the computer. Prerequisites: Art-Hist 303 or permission of the instructor.

**ART-HIST 5563 Primitivism and Its Aftermath**

This course explores one of the seminal movements of the modern era and its ramifications for the visual arts today. Class discussions will consider the complexities and contradictions of primitivism and its rejection through their appropriations from archaic, folk, and non-western art traditions, from 1800-on, while also situating these creative endeavors within the cultural and political contexts of the period. Prerequisites: Art 303 or permission of instructor.

**ART-HIST 5564 Modern Art and the Grotesque**

The course explores how the grotesque shaped the history, practice and theory of art in the nineteenth and twentieth centuries. The grotesque plays a major role in many modern styles, and its expressive possibilities encompass the capriccio, the carnivalesque and burlesque, the fantastic, and the abject and uncanny. Artists have incorporated the grotesque as a means to push beyond established boundaries, explore alternate modes of experience, and to challenge cultural and aesthetic conventions. Prerequisites: Art-Hist 303 or permission of the instructor.

**ART-HIST 5565 Seminar In American Art**

Graduate-level seminar dealing with an announced area in American art. May be repeated once, provided there is a change in the area of concentration. Permission of the department is required.

**ART-HIST 5566 Seminar In 19Th-Century Art**

Graduate-level seminar dealing with an announced area in 19th-century art. May be repeated once, provided there is a change in the area of concentration. Permission of the department is required.

**ART-HIST 5567 Seminar In 20Th-Century Art**

Graduate-level seminar dealing with an announced area in 20th-century art. May be repeated once, provided there is a change in the area of concentration. Permission of the department is required.

**ART-HIST 5570 Seminar In Renaissance Art**

Graduate-level seminar dealing with an announced area in Renaissance art. May be repeated once, provided there is a change in the area of concentration. Permission of the department is required.

**ART-HIST 5571 Seminar In Art Of Africa, Oceania And New World Cultures**

Seminar in art of Africa, oceania and new world cultures. May be repeated once, provided there is a change in the area of concentration. Permission of the department is required.

**ART-HIST 5572 Seminar In Asian Art**

Seminar dealing with an announced area in Asian Art. May be repeated once, provided there is a change in the area of concentration. Permission of the department is required.

**ART-HIST 5573 Visual Arts Administration**

This course on professional arts administration includes assignments in: copyright laws, database management, ethics issues, evaluation design, gallery museum management, grant writing and budgeting, public relations, resume design, tax laws, and website design and management. Students are required to learn relevant computer programs. This course is also open to music and theatre majors. Research requirements for graduate credit are more comprehensive and professional.

**ART-HIST 5575 Seminar In Baroque Art**

Graduate-level seminar dealing with an announced area in Baroque art. May be repeated once, provided there is a change in the area of concentration. Permission of the department is required.
**ART-HIST 5577** Contemporary Artists of the African Diaspora
This course examines cultural and aesthetic continuities between traditional and contemporary arts and artists in Africa and in the Americas, including the study of contemporary Africans whose cultures had the greatest influence in the Americas, as well as contemporary African-American artists in Brazil, Cuba, Haiti, and the United States. Prerequisites: ART-HIST 315 or permission of the instructor.

**ART-HIST 5579** From the Parthenon to the Altar of Peace
The course centers on the many different styles of Greek and Roman art from the fifth century B.C. to the early first century A.D. Attention is also paid to the political and literary forces behind its imagery. Three monuments serve as the pillars upon which the course rests: the Parthenon, Pergamon Altar, and the Ara Pacis. The lessons learned about style, the interaction of politics, literature, and art and the foibles of scholarship are intended to be applied to other fields of art history. Prerequisites: ART-HIST 301, CLAS 301 or permission of instructor.

**ART-HIST 5590** Directed Studies In Art History
Individually directed studies or research in selected topics or problems in art history. Permission of the department is required. May be repeated up to a total of six hours applicable to a degree program.

**ART-HIST 5599** Research & Thesis
Production and/or writing of thesis. Usually taken in the last term of candidacy. Prerequisite: Permission of the department is required.

**ART-HIST 5699** Research And Dissertation
Dissertation Research and writing in Art History. Prerequisite: Consent of advisor

**Black Studies (BLKS)**

**BLKS 5502** Conceptual and Theoretical Foundations in African American Studies
This course will provide an in-depth examination of the theoretical and conceptual parameters of African American studies. We will study the evolution of the field, key scholars and creative intellectuals, and seminal categories of thought. Offered: On demand.

**BLKS 5503** Writing for African American Studies
This course instructs students in how to produce advanced knowledge in the field of African American studies. It provides training in the construction of quality research papers for graduate, scholarly, and professional work and exposes students to a wide array of scholarly journals, databases, and authoritative resources in African American studies. Each time the course is taught, students will develop their research around a specific topic defined by the instructor. Offered: On demand.

**BLKS 5504** Research Seminar
This course introduces the logic, theory, and techniques of empirical research and applies them to African American Studies. It exposes students to a variety of research approaches in order to examine their utility for producing knowledge within the field. Offered: On demand.

**BLKS 5520** Critical Health Issues in Black Communities
Beginning with the African context and the imposition of chattel slavery, this course examines social, cultural, and historical factors affecting the health status of African Americans to the present era. It explores a variety of health-related issues including the interplay between environment, biology, and culture; folk and popular health practices; structured inequality and oppression; lifestyle, beliefs, and values; and the organization and delivery of health care. Moreover, this course moves well beyond the idea that medical care- its presence, absence, or quality- is the singular or most critical factor determining the health of a people, community, or society. It reveals the importance of social phenomena in disease resistance and health promotion. Historical shifts from the prominence of infectious to chronic diseases; the implications to health of chattel slavery, sharecropping, segregation, poverty, and structures inequality; the relationship between psychosocial factors and disease, i.e. destabilized social settings that compromise resistance to disease; environmental racism; and the health status of African Americans as it relates to the organization of work, family structure and function, religious beliefs, the organization of medical care, lifestyle, consumer manipulation, and post-industrial society are major issues addressed by the course.

**BLKS 5521** The Black Family & Male-Female Relationships
The course examines the historical evolution and current status of the African American family in the United States. Utilizing the African experience as its starting point, the course conveys a broad understanding of the role of the family in human survival and progress. We investigate such issues as male-female relationships, sexual practices, dating, marriage, single parenting, the education issues, including institutionalized inequality, that affects the viability of today's African American family.

**BLKS 5525** African American Business Development
This course investigates the various challenges to African American business development and entrepreneurship in the United...
States. We study the lives of successful, pioneering African American businesswomen and men in order to assess how they managed to transcend the barriers of racism and structured inequality. We explore why certain kinds of enterprises emerged among African Americans and why others did not, and we scrutinize the traditional business problems for African Americans of capitalization, distribution, market penetration, and wealth creation. Offered on demand.

**BLKS 5534** From Field Shout to Hip Hop: African American
This course examines the development of African American poetry from its early forms as field shouts, ballads, and blues to present forms including spoken word and hip hop. Includes authors such as Phillis Wheatley, Paul Lawrence Dunbar, Langston Hughes, Gwendolyn Brooks, Tupac Shakur, and Jessica Care Moore. Offered on demand.

**BLKS 5535** Stages toward Freedom: African American
This course explores the development of African American dramatic traditions from the eighteenth century through the Harlem Renaissance, Black Arts Movement, to current postmodernism. Includes authors such as W.W. Brown, Zora N. Hurston, Amiri Baraka, Sonia Sanchez, August Wilson, Suzan-Lori Parks. Offered on demand.

**BLKS 5537** The Civil Rights Movement in African American Literature
This course examines how African American literature shaped ideas about freedom, rights, citizenship and race in the civil rights movement. It draws on a variety of literary forms—speeches, essays, autobiographies, fiction, drama, poetry and film—to explore the movement's impact on communities and cultures as well as its various debates and competing visions. Offered on demand.

**BLKS 5580** Special Topics/Seminar
In-depth exploration of special topics in Black Studies. When available, topics will be announced prior to registration. Offered: On demand.

**BLKS 5590** Directed Study/Research
Individual research and learning projects supervised by a faculty member. Offered: On Demand.

**BLKS 5599** Research Thesis
Individually directed research leading to preparation and completion of a thesis. Offered: On demand.

**BLKS 5699** Research and Dissertation
Individually directed research leading to preparation and completion of a doctoral dissertation. Offered: On demand.

**BLKS 5899** Required Graduate Enrollment
Enrollment required during the completion of a thesis/dissertation. Offered: On demand.

**Chemistry (CHEM)**

**CHEM 5511** Laboratory Safety And Health I
An introduction to laboratory safety and health. Topics to be discussed include good laboratory practice; laboratory hazards; safe chemical handling; storage and disposal; first aid; protective equipment; and federal regulations.

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An introduction to laboratory safety and health. Topics to be discussed include good laboratory practice; laboratory hazards; safe chemical handling; storage and disposal; first aid; protective equipment; and federal regulations.

**CHEM 5520R** Survey Of Organic Chemistry
An intensive advanced survey of the structure, synthesis and reactions of organic compounds. Three hours lecture a week.

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An intensive advanced survey of the structure, synthesis and reactions of organic compounds. Three hours lecture a week.

**CHEM 5521R** Mechanisms Of Organic Reactions
A comprehensive course in which the mechanisms of organic reactions are discussed in light of modern chemical principles. Prerequisites: CHEM 322R and CHEM 432. Three hours lecture a week.

**CHEM 5521R** Mechanisms Of Organic Reactions
A comprehensive course in which the mechanisms of organic reactions are discussed in light of modern chemical principles. Prerequisites: CHEM 322R and CHEM 432. Three hours lecture a week.

**CHEM 5522** Synthetic Organic Chemistry
A critical approach to the synthesis and modification of organic molecules; newer methods will be emphasized. Prerequisites:
CHEM 5522 Synthetic Organic Chemistry
A critical approach to the synthesis and modification of organic molecules; newer methods will be emphasized. Prerequisites: CHEM 322R and CHEM 432. Three hours lecture a week.

CHEM 5529 Selected Topics In Organic Chemistry
Selected topics from the chemistry and theories of organic structures with particular attention to recent developments. Three hours lecture a week.

CHEM 5529 Selected Topics In Organic Chemistry
Selected topics from the chemistry and theories of organic structures with particular attention to recent developments. Three hours lecture a week.

CHEM 5530 Systematic Physical Chemistry
An intensive and comprehensive review of the principles of physical chemistry. This course may either emphasize thermodynamics with an introduction to principles of quantum mechanics or emphasize quantum mechanical description of atoms and molecules, molecular spectroscopy, statistical mechanics and kinetics. Three hours lecture a week.

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An intensive and comprehensive review of the principles of physical chemistry. This course may either emphasize thermodynamics with an introduction to principles of quantum mechanics or emphasize quantum mechanical description of atoms and molecules, molecular spectroscopy, statistical mechanics and kinetics. Three hours lecture a week.

CHEM 5530A Physical Chemistry I
This graduate course reviews principles of physical chemistry, focusing on thermodynamics, equilibria and electrochemistry.

CHEM 5530B Physical Chemistry II
This graduate course reviews principles of physical chemistry, focusing on quantum chemistry, molecular spectroscopy and structure, and kinetics.

CHEM 5531 Classical Thermodynamics
A rigorous treatment of the laws of thermodynamics and their application to ideal and non-ideal equilibrium systems. Three hours lecture a week.

CHEM 5531 Classical Thermodynamics
A rigorous treatment of the laws of thermodynamics and their application to ideal and non-ideal equilibrium systems. Three hours lecture a week.

CHEM 5533 Quantum Chemistry
Application of quantum mechanical methods to the study of systems of chemical interest. Exact solutions and approximate methods will be discussed. Three hours lecture per week.

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Application of quantum mechanical methods to the study of systems of chemical interest. Exact solutions and approximate methods will be discussed. Three hours lecture per week.

CHEM 5534 Molecular Spectroscopy
A theoretical introduction to molecular spectroscopy and its relation to structure. Electronic, vibrational and rotational spectra of chemical systems will be discussed.

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A theoretical introduction to molecular spectroscopy and its relation to structure. Electronic, vibrational and rotational spectra of chemical systems will be discussed.

CHEM 5539 Selected Topics In Physical Chemistry
Selected topics and recent developments in physical chemistry. Prerequisite: Chemistry 5530 or consent of instructor. Three hours lecture a week.

CHEM 5539 Selected Topics In Physical Chemistry
Selected topics and recent developments in physical chemistry. Prerequisite: Chemistry 5530 or consent of instructor. Three
hours lecture a week.

**CHEM 5541R** Advanced Analytical Chemistry
An intensive review of modern concepts of analytical chemistry. Prerequisite: CHEM 432. Three hours lecture a week.

**CHEM 5541R** Advanced Analytical Chemistry
An intensive review of modern concepts of analytical chemistry. Prerequisite: CHEM 432. Three hours lecture a week.

**CHEM 5551R** Advanced Inorganic Chemistry I
A systematic treatment of bonding, structure, reactions and reaction mechanisms of inorganic compounds, with emphasis on classical transition metal compounds and organometallic compounds. Prerequisite: CHEM 451 or equivalent.

**CHEM 5551R** Advanced Inorganic Chemistry I
A systematic treatment of bonding, structure, reactions and reaction mechanisms of inorganic compounds, with emphasis on classical transition metal compounds and organometallic compounds. Prerequisite: CHEM 451 or equivalent.

**CHEM 5559** Selected Topics In Inorganic Chemistry
Various special topics in the inorganic area to be offered in different semesters. Prerequisite: CHEM 5551R or consent of instructor. Three hours lecture a week.

**CHEM 5559** Selected Topics In Inorganic Chemistry
Various special topics in the inorganic area to be offered in different semesters. Prerequisite: CHEM 5551R or consent of instructor. Three hours lecture a week.

**CHEM 5567** Advanced Bioorganic Chemistry
This course examines the organic chemistry and laboratory synthesis of the major biopolymers and organic chemistry related to biological systems. Emphasis is on literature and library research and natural product and solid phase organic synthesis, combinatorial synthesis, bioconjugates and applied bioorganic chemistry.

**CHEM 5567** Advanced Bioorganic Chemistry
This course examines the organic chemistry and laboratory synthesis of the major biopolymers and organic chemistry related to biological systems. Emphasis is on literature and library research and natural product and solid phase organic synthesis, combinatorial synthesis, bioconjugates and applied bioorganic chemistry.

**CHEM 5571R** Introduction To Polymer Chemistry
Survey of organic and inorganic monomers and polymers; the occurrence, synthesis, structures and properties of natural and synthetic polymers; discussion of general properties of plastics, elastomers, fibers, resins and plasticizers. Prerequisite: CHEM 432. Three lecture hours a week.

**CHEM 5571R** Introduction To Polymer Chemistry
Survey of organic and inorganic monomers and polymers; the occurrence, synthesis, structures and properties of natural and synthetic polymers; discussion of general properties of plastics, elastomers, fibers, resins and plasticizers. Prerequisite: CHEM 432. Three lecture hours a week.

**CHEM 5580R** Computer Applications To Chemical Problems
An intense course in FORTRAN programming and its uses in chemical problems related to theory and experimentation. Emphasis will be placed on the mathematical structures of the chemical problems and the coding of these problems into Fortran. No previous programming experience is required.

**CHEM 5580R** Computer Applications To Chemical Problems
An intense course in FORTRAN programming and its uses in chemical problems related to theory and experimentation. Emphasis will be placed on the mathematical structures of the chemical problems and the coding of these problems into Fortran. No previous programming experience is required.

**CHEM 5587** Environmental Chemistry I
A survey of how chemical principles can be applied to the environment. Included will be topics in aquatic chemistry, atmospheric chemistry and chemistry of the geosphere and soil.

**CHEM 5587** Environmental Chemistry I
A survey of how chemical principles can be applied to the environment. Included will be topics in aquatic chemistry, atmospheric chemistry and chemistry of the geosphere and soil.
CHEM 5588 Environmental Chemistry II
Discussion of selected topics in advanced environmental chemistry, such as environmental toxicology, environmental risk, the chemistry of hazardous wastes and their treatment, and environmental analytical chemistry.

CHEM 5588 Environmental Chemistry II
Discussion of selected topics in advanced environmental chemistry, such as environmental toxicology, environmental risk, the chemistry of hazardous wastes and their treatment, and environmental analytical chemistry.

CHEM 5590 Directed Studies
Intensive readings and/or research in an area selected by the graduate student in consultation with the instructor.

CHEM 5590 Directed Studies
Intensive readings and/or research in an area selected by the graduate student in consultation with the instructor.

CHEM 5598 Research Methodology Conference
Student will meet on an individual basis with two faculty members who are involved in research. The student's adviser will coordinate this course.

CHEM 5598 Research Methodology Conference
Student will meet on an individual basis with two faculty members who are involved in research. The student's adviser will coordinate this course.

CHEM 5599 Research And Thesis
Research for thesis.

CHEM 5599 Research And Thesis
Research for thesis.

CHEM 5611 Chemistry Seminar
Presentation and discussion of topics currently appearing in United States and foreign literature. One hour each week.

CHEM 5611 Chemistry Seminar
Presentation and discussion of topics currently appearing in United States and foreign literature. One hour each week.

CHEM 5699 Research And Dissertation
Research for dissertation.

CHEM 5699 Research And Dissertation
Research for dissertation.

CHEM 5899 Required Graduate Enrollment

CHEM 5899 Required Graduate Enrollment

Communication Studies (COMM-ST)
COMM-ST 500PS Special Topics Umkc

COMM-ST 5554 Graduate Seminar: Screenwriting
Students will complete their feature screenplay, focusing on acts two and three and then ready the script for submission to contests and industry contacts. We will focus on in-depth scene work, polishing dialogue and deepening theme. Prerequisites: ComSt 454 and/or English 429B

COMM-ST 5597 Directed Graduate Studies: Readings
Special Projects on the graduate level.

COMM-ST 5597 Directed Graduate Studies: Readings
Special Projects on the graduate level.
COMM-ST 5598 Directed Graduate Studies: Non-Thesis Research
Special projects on the graduate level.

COMM-ST 5598 Directed Graduate Studies: Non-Thesis Research
Special projects on the graduate level.

COMM-ST 585 Continuing Issues In The Mass Media

Criminal Justice & Criminology (CJC)
CJC 5500 Sociology Of Law
A sociological study of the legal system with focus on organizational analyses of the legal profession, courts as a social system, the bureaucratization of the legal process, stratification and the allocation of legal services and careers.

CJC 5500 Sociology Of Law
A sociological study of the legal system with focus on organizational analyses of the legal profession, courts as a social system, the bureaucratization of the legal process, stratification and the allocation of legal services and careers.

CJC 5511 Sociological Methods II
Quantitative research is the primary focus of the course; emphasis is placed on problem formulation; research design; sampling procedures, questionnaire construction and interviewing techniques; data collection; problems of scaling, computer statistical programs; linking appropriate statistical analyses with data analysis; and report writing. Cross listed with SOCIOL 511. Prerequisite: CJC 483 or equivalent.

CJC 5511 Sociological Methods II
Quantitative research is the primary focus of the course; emphasis is placed on problem formulation; research design; sampling procedures, questionnaire construction and interviewing techniques; data collection; problems of scaling, computer statistical programs; linking appropriate statistical analyses with data analysis; and report writing. Cross listed with SOCIOL 511. Prerequisite: CJC 483 or equivalent.

CJC 5515 Qualitative Research Methods in Criminal Justice
This course focuses on qualitative research methods, such as interviewing techniques, focus groups, content analysis, and field observation. Emphasis is placed on research design, data collection, and data analysis. Prerequisite: CJC 483 or equivalent. Offered: Every Fall.

CJC 5516 Intermediate Statistics
A systematic development of the logic and practice of selected statistical methods used in sociological research. Included are analysis of variance and covariance, regression analysis, multiple contingency, and non-parametric tests. Prerequisite: CJC 363 or equivalent. Crosslisted with SOCIOL 516.

CJC 5516 Intermediate Statistics
A systematic development of the logic and practice of selected statistical methods used in sociological research. Included are analysis of variance and covariance, regression analysis, multiple contingency, and non-parametric tests. Prerequisite: CJC 363 or equivalent. Crosslisted with SOCIOL 516.

CJC 5518 Advanced Criminological Theory
This course provides an understanding of past as well as present criminological theories by examining each criminological tradition (beginning in the 18th century and continuing into the present.) The primary aim of the course is to determine the root causes of deviant and criminal behaviors. Moreover, this course offers special attention to how society has historically reacted and responded to crime and deviant behavior. Furthermore, by examining crime and deviant behavior from a historical context, the students are able to determine how criminological theories have influenced public policies designed to reduce and control criminal behavior. In the final analysis, students will examine the rationales that society use to justify efforts toward punishment and treatment. Prerequisite: CJC 319 or equivalent.

CJC 5518 Advanced Criminological Theory
This course provides an understanding of past as well as present criminological theories by examining each criminological tradition (beginning in the 18th century and continuing into the present.) The primary aim of the course is to determine the root causes of deviant and criminal behaviors. Moreover, this course offers special attention to how society has historically reacted and responded to crime and deviant behavior. Furthermore, by examining crime and deviant behavior from a historical context, the students are able to determine how criminological theories have influenced public policies designed to reduce and control criminal behavior. In the final analysis, students will examine the rationales that society use to justify efforts toward punishment
and treatment. Prerequisite: CJC 319 or equivalent.

**CJC 5520** Juvenile Justice
This course provides a historical and contemporary overview of the juvenile justice system via a critical examination of the function of this system and theories explaining delinquency in adolescence. We will explore special topics within juvenile justice and proposals for juvenile justice reform.

**CJC 5551** Seminar In Policing
This course addresses the important topics related to the institution of policing. Through readings and class discussions, students will gain a better understanding of both historical aspects of policing as well as the future of policing. Topics include selection, training and socialization, police management, deviance and corruption, use of force, community oriented policing.

**CJC 5565** Seminar In Crime Prevention
This seminar examines variations in methods to reduce crime in America, including strategies from the criminal justice system as well as other institutions. Building on established criminological theory, this seminar will evaluate the best practices to prevent crime across a variety of social contexts.

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**CJC 5570** Contemporary Corrections And Correctional Policy
Present-day correctional alternatives are considered regarding the correctional policy that is, or potentially can be, carried out within the various programs. Prisons, probation, parole community-based programs are evaluated as to the theory of punishment demonstrated within these programs. Emphasis is placed on what constitutes a rational and workable corrections policy and the form of correctional programs needed to realize such policy.

**CJC 5570** Contemporary Corrections And Correctional Policy
Present-day correctional alternatives are considered regarding the correctional policy that is, or potentially can be, carried out within the various programs. Prisons, probation, parole community-based programs are evaluated as to the theory of punishment demonstrated within these programs. Emphasis is placed on what constitutes a rational and workable corrections policy and the form of correctional programs needed to realize such policy.

**CJC 5575** Correctional Rehabilitation And Treatment
This course will begin with a thorough examination of the rise, fall, and recent resurrection of ""rehabilitation and treatment"" in American correctional strategies. Both past and current treatment strategies will be studied regarding their effectiveness in reducing recidivism. This will be done through a survey of the quantitative literature base. There will be some emphasis on treating special needs offenders (e.g., sex offenders, juvenile offenders, offenders with developmental disabilities or mental illnesses.)

**CJC 5575** Correctional Rehabilitation And Treatment
This course will begin with a thorough examination of the rise, fall, and recent resurrection of ""rehabilitation and treatment"" in American correctional strategies. Both past and current treatment strategies will be studied regarding their effectiveness in reducing recidivism. This will be done through a survey of the quantitative literature base. There will be some emphasis on treating special needs offenders (e.g., sex offenders, juvenile offenders, offenders with developmental disabilities or mental illnesses.)

**CJC 5576** Seminar In Criminal Justice And Criminology Issues
This course is an advanced exploration of the relationship between the criminal justice system and criminal behavior from at least one of the following perspectives: psychological, sociological, economic, legal, political or administration/ management. Will include discussions and analysis of contemporary readings and on-going research in the selected perspective.

**CJC 5576** Seminar In Criminal Justice And Criminology Issues
This course is an advanced exploration of the relationship between the criminal justice system and criminal behavior from at least one of the following perspectives: psychological, sociological, economic, legal, political or administration/ management.
Will include discussions and analysis of contemporary readings and on-going research in the selected perspective.

**CJC 5580 Seminar: Policy And Decision Making In Criminal Justice**
The focus of the course is assessment of the character and recent crime trends in the United States, with attention to identifying elements that shape justice system policies in response to crime. Consideration is given to the nature and scope of policy and decision-making processes in legal institutions and law enforcement bureaucracies, how such policies have impacted crime, and alternative policies that address the problem of crime.

**CJC 5590 Directed Studies In Criminal Justice And Criminology**
Individual research and study in the student's field of interest as approved and directed by major professors. The work involves examination and reporting of selected problems affecting the various agencies of our legal system. A. Law Enforcement B. Court Operations and Administration C. Corrections D. Legal Theory and Philosophy E. Criminological Theory F. Sociology of Law

**CJC 5592 Advanced Gis For Crime Analysis**
This course provides an overview of crime mapping as it relates to the spatial and temporal analysis of crime. Utilizing theory related to criminal offending, this course will provide students with hands-on experience in geographic profiling and crime prevention strategies. Prerequisites: GEOG 203 or equivalent

**CJC 5595 Crime Analysis Internship**
This experience involves working with crime analysts in the field. Students will learn and hone practical skills while being supervised by department faculty or staff. Prerequisite: CJC 592

**CJC 5599 Research And Thesis**
Directed specialized research. Before writing a thesis, the student must clear the topic and research design with the Supervisory Committee.

**CJC 5699 Dissertation Research**
Individual directed research leading to preparation and completion of doctoral dissertation. Prerequisites: PH.D course requirements completed. Offered: Every Fall, Every Winter, Every Summer.

**Economics (ECON)**

**ECON 500PS Special Topics Umkc**

**ECON 5501 Advanced Macroeconomic Analysis**
Basic theoretical concepts of national income and statistical tools utilized in its measurement. Aggregate demand and supply as problems of economic dynamics. The course includes examination of the primary competing theoretical approaches: neoclassical, Keynesian, new classical, real business cycle, new keynesian supply side, Austrian, and Post Keynesian. Topics covered inclue
growth, money, labor markets consumption, investment, expectations formation, role of time and uncertainty, equilibrium and disequilibrium analysis, exchanges rates, international trade, and optimal currency areas. Policy implications of the various macroeconomic theories are explored. Prerequisites: ECON 301 and ECON 302, or their equivalent. Offered: Fall 2001.

**ECON 5501 Advanced Macroeconomic Analysis**
Basic theoretical concepts of national income and statistical tools utilized in its measurement. Aggregate demand and supply as problems of economic dynamics. The course includes examination of the primary competing theoretical approaches: neoclassical, Keynesian, new classical, real business cycle, new keynesian supply side, Austrian, and Post Keynesian. Topics covered include growth, money, labor markets consumption, investment, expectations formation, role of time and uncertainty, equilibrium and disequilibrium analysis, exchanges rates, international trade, and optimal currency areas. Policy implications of the various macroeconomic theories are explored. Prerequisites: ECON 301 and ECON 302, or their equivalent. Offered: Fall 2001.

**ECON 5502 Advanced Microeconomic Analysis**
The course first provides a critical survey of neoclassical microeconomic theory, including methodology, demand theory, production and cost theory, theory of competitive and non-competitive markets, distribution, welfare, and general equilibrium. It then introduces heterodox microeconomic theory, covering its historical origins, methodology, structural organization of economic activity, in-put-output models, flow of funds, agency and institutions, and the business enterprise. Prerequisites: ECON 302, ECON 521

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The course first provides a critical survey of neoclassical microeconomic theory, including methodology, demand theory, production and cost theory, theory of competitive and non-competitive markets, distribution, welfare, and general equilibrium. It then introduces heterodox microeconomic theory, covering its historical origins, methodology, structural organization of economic activity, in-put-output models, flow of funds, agency and institutions, and the business enterprise. Prerequisites: ECON 302, ECON 521

**ECON 5503 Advanced Heterodox Economics**
The course examines various theoretical approaches and topics, both historically and currently, that constitute heterodox economics. In particular the course deals in depth with the mathematical and economic properties of heterodox production and price models. After reviewing the mathematics of linear production-price models, the module will examine Leontief, Sraffian, and other heterodox price and production models. Prerequisites: Eon 301, Eon 302, and Math 210.

**ECON 5504R American Economic History Since 1865**
The course deals with the emergence of Industrial America since 1865. It will cover the rise to dominance of the large modern corporation, with the problem of economic and social instability and stability, with the rise of trade associations, cartels, and government regulation in an unstable economy, and with the evolution of American economic policy and national economic planning. The course is the same as HISTORY 566R.

**ECON 5504R American Economic History Since 1865**
The course deals with the emergence of Industrial America since 1865. It will cover the rise to dominance of the large modern corporation, with the problem of economic and social instability and stability, with the rise of trade associations, cartels, and government regulation in an unstable economy, and with the evolution of American economic policy and national economic planning. The course is the same as HISTORY 566R.

**ECON 5504RR American Labor History**
This course examines the history of work and the working class in the U.S. from 1750 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers' relationships with other social groups, and the role played by gender, race, and ethnicity in uniting or dividing the working class. Also cross-listed with HISTORY 566RR. Prerequisites: graduate standing

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This course examines the history of work and the working class in the U.S. from 1750 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers' relationships with other social groups, and the role played by gender, race, and ethnicity in uniting or dividing the working class. Also cross-listed with HISTORY 566RR. Prerequisites: graduate standing

**ECON 5505 Advanced Comparative Economic Systems**
Contents vary depending upon the instructor's design for the course. Prerequisite: ECON 301, ECON 302.

**ECON 5505 Advanced Comparative Economic Systems**
Contents vary depending upon the instructor's design for the course. Prerequisite: ECON 301, ECON 302.
ECON 5506 Advanced History Of Economic Thought
This seminar uses issues raised in the reading of two 'classic' primary texts, Adam Smith's An Inquiry into the Nature and Causes of the Wealth of Nations (1776) and John Maynard Keynes's The General Theory of Employment, Interest and Money (1936), as points of departure for the examination of a series of topics in the history and development of economics and alternative paradigms in the discipline. These investigations will lead us to the study of a number of other seminal articles, representing alternative approaches in the field. Topics include competition, accumulation, path dependence and endogenous technical change, cumulative causation, the laws of return, money and credit, capital theory, and more. Prerequisites: ECON 301, ECON 302.

ECON 5508 Controversial Issues In Recent Economic Literature
This course will focus on theoretical and policy-oriented controversies that have occurred in economics in the 20th century. The type of controversies covered include, but are not restricted to, money, unemployment, business cycles and economic growth, pricing and administered prices, capital controversy, labor theory of value controversy, and free trade vs. protectionism. While the course concentrates on recent debates, it identifies the origins of the modern disputes in earlier controversies. For each controversy, its real world importance and policy implications are discussed.

ECON 5512 Advanced Economic Development
Contents vary depending upon the instructor's design. Prerequisite: ECON 301, ECON 302.

ECON 5513 Economic Cycles And Growth
A critical review and evaluation of economic analysis and the forces of economic fluctuation and growth; and analysis of statics, dynamics, monopolistic competition, the role of the interrelationships of the market structure and other institutional forces as they relate to fluctuations and growth. An emphasis will be made on the critical evaluation of recent literature in the field of economic analysis related to fluctuations, growth, statics, dynamics, market structure and the reinterpretation of economic fluctuations, growth, forecasting and overall economic behavior. An analysis of the technological, monetary, and fiscal policy implied by economic trends and growth will also be discussed. Prerequisite: ECON 501 or its equivalent or by special permission of the instructor.

ECON 5516L Law And Economics
This course will examine the use of economic principles in the analysis and applications of public and private law. Emphasis will be given to the efficiencies of laws in meeting social objectives, how laws can be modified to become more economically efficient, and the uses of economics in the actual practice of the law. Issues covered will include proofs of liability in antitrust, contracts and employment law using statistical and economic analysis, and the calculation of economic damages in commercial, employment and personal injury/death litigation. Graduate students will be assigned a specific research paper. Prerequisites: ECON 302 or consent of instructor.
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This course will examine the use of economic principles in the analysis and applications of public and private law. Emphasis will be given to the efficiencies of laws in meeting social objectives, how laws can be modified to become more economically efficient, and the uses of economics in the actual practice of the law. Issues covered will include proofs of liability in antitrust, contracts and employment law using statistical and economic analysis, and the calculation of economic damages in commercial, employment and personal injury/death litigation. Graduate students will be assigned a specific research paper. Prerequisites: ECON 302 or consent of instructor.

ECON 5521 Mathematical Economics
An introduction to mathematical methods as applied to the questions addressed by economists. The principal methods to be applied are matrix algebra and differential calculus in the context of optimization. Other topics may include integral calculus, differential equations, difference equations or linear and nonlinear programming. Prerequisites: ECON 301, ECON 302 and MATH 110 or equivalent

ECON 5525 Econometric Methods
Continuation of ECON 425. The major problems encountered in building and testing economic models are treated and alternative solutions to these problems are discussed. Major topics include corrections for heteroscedasticity and autocorrelation, maximum likelihood and BLUE estimation, simultaneous equations methods, probit and logit analysis and distributed lags. Other topics may include ARIMA or other series analytic methods, three stage least squares and dynamic multipliers or simulation. Work with econometric software is stressed. No programming experience necessary. Prerequisite: ECON 425 or equivalent and ECON 521

ECON 5529 Readings In Quantitative Economics
Readings from the economic literature which stress advanced mathematical or econometric tools. A general subject matter is selected by the student with the consent of the instructor. Prerequisites: ECON 521, ECON 525

ECON 5531 Monetary Theory And Policy
A study of the nature and functions of money and the financial system, with emphasis on monetary theory and its application to current banking and financial problems; recent contributions to monetary theory and current literature. Prerequisite: ECON 301.

ECON 5537 State And Local Government Finance
This course investigates the role, problems and relative importance of municipal governments in the United States. Such areas as the demand for public services, tax and expenditure policies, and intergovernmental fiscal relations will be explored in detail. Case studies of state and local governments will be introduced to emphasize the problems and proposed solutions arising in
modern municipal governments. Prerequisite: ECON 302.

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**ECON 5538 Economic Policy**
Analysis of the confluence of political and economic behavior, the economics of collective action. Prerequisites: ECON 301 and ECON 302

**ECON 5538 Economic Policy**
Analysis of the confluence of political and economic behavior, the economics of collective action. Prerequisites: ECON 301 and ECON 302

**ECON 5540 Advanced International Trade**
This course emphasizes the global allocation of resources and distribution of income under various commodity market conditions and government trade policies. Major topics include: comparative advantage; terms of trade; the distribution of gains and losses from trade; perfect vs. imperfect competition; tariffs, quotas and other barriers to trade; exchange rates and the balance of payments; preferential trading arrangements; international factor movements and multinational corporations. Prerequisites: ECON 302, or equivalent; graduate status.

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This course emphasizes the global allocation of resources and distribution of income under various commodity market conditions and government trade policies. Major topics include: comparative advantage; terms of trade; the distribution of gains and losses from trade; perfect vs. imperfect competition; tariffs, quotas and other barriers to trade; exchange rates and the balance of payments; preferential trading arrangements; international factor movements and multinational corporations. Prerequisites: ECON 302, or equivalent; graduate status.

**ECON 5542 Advanced International Finance**
This course emphasizes the global activity and balance of payments implications of government taxation, expenditure and monetary policies under various capital market conditions. Major topics include: exchange rates and the balance of payments; national income determination in an open economy; integrated and non-integrated capital markets; economic growth, stabilization policies and the quest for global economic stability.

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**ECON 5548 Advanced Socialist Economic Systems**
The course will deal with the theoretical analysis of socialist economic theory, Marxian and non-Marxian, and/or of socialist economics systems such as those of Eastern Europe, the Chinese mainland and elsewhere. The emphasis of the course will vary depending upon the instructor's design for the course. Prerequisite: ECON 301 and ECON 302.

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The course will deal with the theoretical analysis of socialist economic theory, Marxian and non-Marxian, and/or of socialist economics systems such as those of Eastern Europe, the Chinese mainland and elsewhere. The emphasis of the course will vary depending upon the instructor's design for the course. Prerequisite: ECON 301 and ECON 302.

**ECON 5550 Regional Economics**
The economics of spatial relations, emphasizing basic location and land utilization theory and the role of transport will be considered at the micro-level. Keynesian and neoclassical growth theories and contemporary policy approaches to regional growth and decline are analyzed. Prerequisite: ECON 302.

**ECON 5550 Regional Economics**
The economics of spatial relations, emphasizing basic location and land utilization theory and the role of transport will be considered at the micro-level. Keynesian and neoclassical growth theories and contemporary policy approaches to regional growth and decline are analyzed. Prerequisite: ECON 302.
ECON 5551 Advanced Institutional Theory
Evolution, organization and allocation functions of the modern industrial economy. Contributions and limitations of conventional economic concepts. Philosophical and theoretical interpretations of the economy in light of modern developments in philosophy and social science. Prerequisite: ECON 451

ECON 5555 Advanced Institutional Theory
Evolution, organization and allocation functions of the modern industrial economy. Contributions and limitations of conventional economic concepts. Philosophical and theoretical interpretations of the economy in light of modern developments in philosophy and social science. Prerequisite: ECON 451

ECON 5558 Advanced Urban Economics
The study of the city as a dynamic system of interrelated and interdependent markets. Significant markets in cities include land, housing, labor, transportation and public services.

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ECON 5560 Industrial Organization

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ECON 5565 Advanced Health Economics
This course is a critical review and evaluation of the economic analysis of medical markets. An emphasis will be placed on the critical evaluation of recent literature assessing health care systems and institutions, medical care spending, demand estimations for various types of medical services, demand estimation for medical insurance, analysis of medical care productions and costs, analysis of government policy for the deployment of health care resources. Prerequisites: ECON 465 or equivalent. Offered: Every Other Winter on Demand.

ECON 5565 Advanced Health Economics
This course is a critical review and evaluation of the economic analysis of medical markets. An emphasis will be placed on the critical evaluation of recent literature assessing health care systems and institutions, medical care spending, demand estimations for various types of medical services, demand estimation for medical insurance, analysis of medical care productions and costs, analysis of government policy for the deployment of health care resources. Prerequisites: ECON 465 or equivalent. Offered: Every Other Winter on Demand.

ECON 5575 Labor Economics, Institutions and Policies
This course focuses on the economic analysis of labor market phenomena in the context of historical-institutional development and on labor market policies. This course is offered winter semester only. Prerequisites: ECON 201 and ECON 202 or consent of instructor.

ECON 5583 Racial Inequality & Public Policy
This course will provoke open debate and discourse about public policy responses to racial inequality. The emphasis is on stimulating participants to think about and to analyze critically the range of strategies offered for reducing racism and racial economic inequality. Offered: On demand

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This course will provoke open debate and discourse about public policy responses to racial inequality. The emphasis is on stimulating participants to think about and to analyze critically the range of strategies offered for reducing racism and racial economic inequality. Offered: On demand

ECON 5587 Human Resource Economics
An analysis of the factors determining the productivity of human resource: education, nutrition, job training and work environment. An analysis of work patterns, wage patterns, and the impact of automation. This course will be taught at the same time as ECON 487, the undergraduate Human Resource Economics. Graduate students will be assigned a specific research paper
on a topic to be decided with the instructor. Prerequisite: ECON 302

**ECON 5587 Human Resource Economics**
An analysis of the factors determining the productivity of human resource: education, nutrition, job training and work environment. An analysis of work patterns, wage patterns, and the impact of automation. This course will be taught at the same time as ECON 487, the undergraduate Human Resource Economics. Graduate students will be assigned a specific research paper on a topic to be decided with the instructor. Prerequisite: ECON 302

**ECON 5588 Advanced Political Economy**
This course gives students a comprehensive introduction to the history and modern practice of political economy, with particular emphasis on Marxian and Classical political economy. Topics include: value theory, class theory, economic reproduction, economic crisis, the theory of history, and methodology. Course offered on demand. Course may be taken concurrently with ECON 521Prerequisites: ECON 521 or permission of instructor

**ECON 5589 Graduate Seminar In Labor Economics**
Content of seminar will vary from semester to semester depending upon the instructor's design for the course. Prerequisite: ECON 486.

**ECON 5589 Graduate Seminar In Labor Economics**
Content of seminar will vary from semester to semester depending upon the instructor's design for the course. Prerequisite: ECON 486.

**ECON 5590 Special Topics**
Selected topics in theoretical and applied economics. Prerequisite: Consent of instructor.

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Selected topics in theoretical and applied economics. Prerequisite: Consent of instructor.

**ECON 5590A Special Topics**

**ECON 5590B Special Topics**

**ECON 5590C Special Topics**

**ECON 5591 Research And Planning Seminar**
The objective of this research seminar is to apply the quantitative techniques and theoretical constructs of economics to an urban-regional problem. Students are required to formulate and evaluate present economic models, and then complete a research project. Prerequisites: ECON 502 and ECON 521

**ECON 5591 Research And Planning Seminar**
The objective of this research seminar is to apply the quantitative techniques and theoretical constructs of economics to an urban-regional problem. Students are required to formulate and evaluate present economic models, and then complete a research project. Prerequisites: ECON 502 and ECON 521

**ECON 5599 Research And Thesis**
Directed specialized research.

**ECON 5599 Research And Thesis**
Directed specialized research.
ECON 5601 Colloquium In Advanced Macroeconomics
The course will deal with analyses of topics in Macroeconomic analysis and Macroeconomic policies and investigation of current literature in divers areas of Macroeconomic analysis. A written report(s) will be made upon the selected assignment(s).
Prerequisite: ECON 501 or equivalent.

ECON 5602 Colloquium In Advanced Microeconomics
As a continuation of Economics 502, this course deals with the business enterprises-including production, costs, pricing, and investment-markets, market demand, market governance, general price-quantity models of the economy, microfoundations of the heterodox macroeconomics, and social welfare. Prerequisite: ECON 502

ECON 5606 Colloquium on Advanced History of Economic Thought
The course examines advanced topics in history of economic thought. Prerequisite: Economics 506. Offered: On Demand.

ECON 5608 Topics In Economic Theory
This course deals with advanced topics in Institutionalist, Post Keynesian, and other heterodox economic theory. May be repeated with different topic. Offered on a 2 year cycle or on demand.

ECON 5616 History Of Economics In The 20Th Century
The history of 20th century economics is concerned with a number of interdependent issues, including the institutional organization of economics at universities; the historical development of the structures and social networks that make-up the economic paradigms of neoclassical economics, Marxian economics, Post Keynesian economics, and other heterodox economics; and the role of institutional and state power to maintain the dominance of the neoclassical paradigm. The aim of the course is to introduce students to this institutional/organizational history.

ECON 5625 Colloquium In Econometrics
This course treats advanced topics in econometrics such as non-linear estimation techniques, model development, simultaneous equation estimation techniques, and simulation. Topics are developed from theoretical and application perspectives. Familiarity with personal computer is necessary. Prerequisite: ECON 521, Mathematical Economics or equivalent, ECON 525, Econometrics, or equivalent, ECON 501, Advanced Macro-economics or equivalent, ECON 502, Advanced Micro-economics or equivalent.
ECON 5645 Financial Macroeconomics
This course will introduce the student to the central role of financial analysis in macroeconomic analysis and to theories of macroeconomics instability based on the integration of finance and macroeconomics. It will examine modern finance theory and modern approaches to financial analysis, paying particular attention to the contributions made by Fisher and Keynes. Offered: Fall 2000

ECON 5645 Financial Macroeconomics
This course will introduce the student to the central role of financial analysis in macroeconomic analysis and to theories of macroeconomics instability based on the integration of finance and macroeconomics. It will examine modern finance theory and modern approaches to financial analysis, paying particular attention to the contributions made by Fisher and Keynes. Offered: Fall 2000

ECON 5660 Evolution Of American Industrial Society
Drawing on economic and organizational theory, the course will concentrate on the evolution of American industrial technology, the American business enterprise, and the organization of American industries and markets since 1870.

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Drawing on economic and organizational theory, the course will concentrate on the evolution of American industrial technology, the American business enterprise, and the organization of American industries and markets since 1870.

ECON 5665 Colloquium In Advanced Health Economics
This course is designed as a seminar with a special emphasis on analysis of econometric methods to assess issues in health care. The topics are developed from a theoretical and applied perspective. Familiarity with personal computers is necessary. Special emphasis will be given in the selection of course topics to the interests and backgrounds of participants. Prerequisites: ECON 565, ECON 521, and ECON 525 or their equivalents. Offered: Every other Winter on demand.

ECON 5665 Colloquium In Advanced Health Economics
This course is designed as a seminar with a special emphasis on analysis of econometric methods to assess issues in health care. The topics are developed from a theoretical and applied perspective. Familiarity with personal computers is necessary. Special emphasis will be given in the selection of course topics to the interests and backgrounds of participants. Prerequisites: ECON 565, ECON 521, and ECON 525 or their equivalents. Offered: Every other Winter on demand.

ECON 5680 Teaching Methods And Course Design
This course is designed to prepare students for the challenge of teaching economics. Students will be taught how to write a syllabus; how to prepare for class; how to plan learning activities; how to become skillful in leading discussion; how to present an effective lecture; how to test and assess student learning; how to develop effective group projects; how to motivate their students for lifelong learning. Students will be required to design a course to be taught at the 200-, 300or 400-level. It would be possible for the student to design an entirely new course, but it is hoped that the student will choose an existing course, which could then be taught as part of the ECON 681/682 requirement. The student will prepare a complete set of course materials, including a lecture outline, a list of require readings, useful handouts, course materials, including a lecture outline, a list of require readings, useful handouts, course assignments, exams, etc. The course should incorporate an interdisciplinary approach and should emphasize an "active learning" component, designed to promote a "rich learning experience." The student will work closely with an appropriate member of the faculty. Prerequisite: Must have completed/passed Comprehensive Exams
Offered: Every Fall

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This course is designed to prepare students for the challenge of teaching economics. Students will be taught how to write a syllabus; how to prepare for class; how to plan learning activities; how to become skillful in leading discussion; how to present an effective lecture; how to test and assess student learning; how to develop effective group projects; how to motivate their students for lifelong learning. Students will be required to design a course to be taught at the 200-, 300or 400-level. It would be possible for the student to design an entirely new course, but it is hoped that the student will choose an existing course, which could then be taught as part of the ECON 681/682 requirement. The student will prepare a complete set of course materials, including a lecture outline, a list of require readings, useful handouts, course materials, including a lecture outline, a list of require readings, useful handouts, course assignments, exams, etc. The course should incorporate an interdisciplinary approach and should emphasize an "active learning" component, designed to promote a "rich learning experience." The student will work closely with an appropriate member of the faculty. Prerequisite: Must have completed/passed Comprehensive Exams
Offered: Every Fall

ECON 5688 Colloquium On Political Economy
This course is designed as a seminar and will take into account theory and policy analysis from alternative perspectives. The
topics covered will include philosophical foundations of contemporary theory and policy, the organization of production information and finance, resource and environment, wealth and income distribution, public and private policy and planning. Stress is placed on contemporary research and students are expected to become involved in research projects.

**ECON 5688** Colloquium On Political Economy
This course is designed as a seminar and will take into account theory and policy analysis from alternative perspectives. The topics covered will include philosophical foundations of contemporary theory and policy, the organization of production information and finance, resource and environment, wealth and income distribution, public and private policy and planning. Stress is placed on contemporary research and students are expected to become involved in research projects.

**ECON 5690** Special Doctoral Readings In Economics
Special research topics in Economics at the Doctoral level.

**ECON 5690** Special Doctoral Readings In Economics
Special research topics in Economics at the Doctoral level.

**ECON 5699** Doctoral Dissertation
Directed selected research for Economics in the interdisciplinary doctoral program.

**ECON 5699** Doctoral Dissertation
Directed selected research for Economics in the interdisciplinary doctoral program.

**ECON 5899** Required Graduate Enrollment

**English (ENGLISH)**
**ENGLISH 500PS** Special Topics Umkc

**ENGLISH 5500** Introduction To Graduate Study In English
An introduction to historical and contemporary methods of research and scholarship related to English Studies. The course uses a wide spectrum of print and digital materials, library facilities (including archives and Special Collections), databases, and other resources such as microfilm, to explore English studies as an academic discipline.

**ENGLISH 5500P** Special Topics

**ENGLISH 5501** Magazine Editing
A course combining academic study of editorial management, publishing operations, and language skills, with "hands on" experience in article evaluation, editing, magazine production, and legal matters such as copy right and libel. Class work concentrates on authentic and effective language use, with attention given to copy editing, grammar, typography, printing processes, financing and distribution for commercial and small-press publications.

**ENGLISH 5501** Magazine Editing
A course combining academic study of editorial management, publishing operations, and language skills, with "hands on" experience in article evaluation, editing, magazine production, and legal matters such as copy right and libel. Class work concentrates on authentic and effective language use, with attention given to copy editing, grammar, typography, printing processes, financing and distribution for commercial and small-press publications.

**ENGLISH 5502** Magazine Nonfiction
This course emphasizes the origination and execution of nonfiction magazine articles for a variety of publications. Special attention is given to successful queries and the various writing techniques required for different kinds or articles. Students learn re-structuring and revision and the legalities affecting writers. Students are expected to complete three publishable articles.

**ENGLISH 5502** Magazine Nonfiction
This course emphasizes the origination and execution of nonfiction magazine articles for a variety of publications. Special attention is given to successful queries and the various writing techniques required for different kinds or articles. Students learn re-structuring and revision and the legalities affecting writers. Students are expected to complete three publishable articles.
ENGLISH 5503 Old English
This course is a study of Old English, its grammar, its poetic style, and its literature, both poetry and prose.

ENGLISH 5504 Radio And Television Writing
A course in how to write scripts, both dramatic and comic, for radio and television. Special emphasis is placed on the genesis and continuation of the radio and television series. Principles of dramaturgy for broadcast media are also stressed. Students are expected to write at least one broadcast play, and the pilots for at least three series. Attention will also be given to the marketing of broadcast scripts and to local production of their writing.

ENGLISH 5508 Harlem Renaissance
This course examines the period from 1920 to 1940, known as the Harlem Renaissance, a time of unprecedented literary and cultural creativity by Black artists. This course explores a variety of cultural productions, not only traditional forms of literature such as novels, short stories, plays and poetry, but also nonliterary objects of study such as painting, sculpture, and music. Offered: On demand

ENGLISH 5510 Black Women Writers
This course explores the writings of African American Women Writers. The course examines how these writers have interacted with and often revised stereotypical representations of African American womanhood typically found within canonical and African American male literatures. The course will examine literature (which might include fiction, poetry, autobiography, and drama) of the 19th and 20th centuries; the majority of the works will be by modern and contemporary authors such as Nella Larsen, Zora Neale Hurston, Toni Morrison, and Terry McMillan. By placing the works in this sort of cultural and historical context, it will be possible to examine the unique tradition of African American women's writings as well as individual texts.

ENGLISH 5512 Chaucer
Readings from Chaucer's most important works, especially "The Canterbury Tales" and "Troilus and Criseyde" with emphasis on them as types of medieval genres and on the Middle English language. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5513 Renaissance Literature I
English literature from the time of Wyatt and Surrey to the beginning of the 17th century, including the works of Spenser, Marlowe, Sidney, Shakespeare and others. Students will make in-class presentations and submit papers requiring research and bibliographical work.
ENGLISH 5513 Renaissance Literature I
English literature from the time of Wyatt and Surrey to the beginning of the 17th century, including the works of Spenser, Marlowe, Sidney, Shakespeare and others. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5514 Milton
A study of Milton's prose and poetry, with special attention to "Paradise Lost". Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5515 Restoration And Early 18th-Century British Literature
British literature from the late 17th century to the mid-18th century. Selected writers may include Addison and Steele, Behn, Congreve, Defoe, Dryden, Finch, Pope, Rochester, Swift, and Wortley Montagu.

ENGLISH 5516 The Romantic Period
An extensive study of selected writers (such as Austen, Barbauld, Byron, Coleridge, Hazlitt, Hemans, Keats, Gilpin, the Shelleys, Wollstonecraft, and Wordsworth) organized around literary themes and/or cultural issues important to the Romantic period. Prerequisite: ENGLISH 327 or permission of the instructor. This prerequisite applies only to undergraduate students.

ENGLISH 5517 Modern Poetry
Study of works by modernist poets such as Hopkins, Yeats, Frost, Stevens, Williams, Moore, Pound, H.D., Eliot, Millay, Hughes. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5518 19th-Century American Literature
An intensive study of either selected major American writers in the 19th century or of 19th-century literary movements. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5519 Teaching Writing: Theories, Histories, Contexts, Practices
This course focuses on issues related to the teaching of English at the high school and college levels, with an emphasis on the teaching of writing. Issues addressed may include assignment design, teaching invention and revision, response to and evaluation of writing, collaborative learning, relationships between reading and writing, classroom uses of electronic media, and institutional contexts within which teachers work. The course is required of Graduate Teaching Assistants in the UMKC Composition Program, to be taken either prior to or concurrently with their first semester of teaching. Secondary English teachers and others interested in English teaching are also welcome.

ENGLISH 5520 Greater Kansas City Writing Project
Studies in methods and objectives for the teaching of English with special attention to secondary school teaching. This course is repeatable for credit with advisor approval.
repeatable for credit with advisor approval.

**ENGLISH 5520A** Greater Kansas City Writing Project

**ENGLISH 5520B** Greater Kansas City Writing Project

**ENGLISH 5520D** Greater Kansas City Writing Project

**ENGLISH 5522** Medieval Literature
Western religious and secular verse and prose to the 15th century. Late Middle English works are read in the original; all other selections in translation. Students will make in-class presentations and submit papers requiring research and bibliographical work.

**ENGLISH 5522** Medieval Literature
Western religious and secular verse and prose to the 15th century. Late Middle English works are read in the original; all other selections in translation. Students will make in-class presentations and submit papers requiring research and bibliographical work.

**ENGLISH 5523** Renaissance Literature II
English literature from 1600 to the beginning of the Restoration, including the works of Donne, Jonson, Milton, and other contemporaries. Students will make in-class presentations and submit papers requiring research and bibliographical work.

**ENGLISH 5523** Renaissance Literature II
English literature from 1600 to the beginning of the Restoration, including the works of Donne, Jonson, Milton, and other contemporaries. Students will make in-class presentations and submit papers requiring research and bibliographical work.

**ENGLISH 5526** The Victorian Period
An intensive study of selected writers (such as Arnold, Braddon, the Brontes, the Brownings, Dickens, Darwin, Eliot, Gaskell, Hardy, Ruskin, and the Rossettis) organized around literary themes and/or cultural issues important to the Victorian period. Prerequisite: ENGLISH 327 or permission of the instructor. This prerequisite applies only to undergraduate students.

**ENGLISH 5526** The Victorian Period
An intensive study of selected writers (such as Arnold, Braddon, the Brontes, the Brownings, Dickens, Darwin, Eliot, Gaskell, Hardy, Ruskin, and the Rossettis) organized around literary themes and/or cultural issues important to the Victorian period. Prerequisite: ENGLISH 327 or permission of the instructor. This prerequisite applies only to undergraduate students.

**ENGLISH 5527** Contemporary Poetry
Study of works by contemporary poets (post-World War II), such as Auden, Bishop, Hayden, Berryman, Rukeyser, Larkin, Rich, Plath, Heaney, Boland, and Komunyakaa. Students will make in-class presentations and submit papers requiring research and bibliographic work.

**ENGLISH 5527** Contemporary Poetry
Study of works by contemporary poets (post-World War II), such as Auden, Bishop, Hayden, Berryman, Rukeyser, Larkin, Rich, Plath, Heaney, Boland, and Komunyakaa. Students will make in-class presentations and submit papers requiring research and bibliographic work.

**ENGLISH 5528** 20th Century American Literature
Major American writers or literary movements of the 20th century. Students will make in-class presentations and submit papers requiring research and bibliographical work.

**ENGLISH 5528** 20th Century American Literature
Major American writers or literary movements of the 20th century. Students will make in-class presentations and submit papers requiring research and bibliographical work.

**ENGLISH 5529** Graduate Seminar: Screenwriting
A seminar on advanced theory in narrative screenwriting, script analysis and constructive story editing. Students draft, revise and workshop a short film script or a feature screen play, and deliver a pitch, treatment, draft and revision of the first act and detailed outline of the whole script. Students workshop feature screenplays in small groups. Cross-listed with Comm S 354: Graduate
Seminar: Screenwriting. Prerequisite: ENGL 429B/Comm S 454: Advanced Screenwriting or permission of instructor.

ENGLISH 5531 Late 18th-Century British Literature
British literature from the mid to late 18th century. Selected writers may include Blake, Burney, Collins, Equiano, Fielding, Gray, Johnson, Sheridan, and Wollstonecraft.

ENGLISH 5532 Advanced Creative Writing: Fiction
A course for advanced students of fiction writing. The class will proceed through analysis of models, discussion of general principles, and critique of student work. Students will simultaneously be encouraged to experiment and to refine the form and subjects best suited to their talents. Emphasis will remain on the short story, though there may be units in other forms--novella, film script, the non-fiction essay. May be repeated once for credit. Prerequisite: Graduate Standing Offered: Every year.

ENGLISH 5533 Histories Of Writing, Reading, And Publishing
A study of selected topics concerning the material practices of writing, reading, and publishing within specific cultural and historical contexts. Issues examined may include authorship, education, information technologies, libraries, literacy, periodicals, popular literature, publishers, and communities of readers. Offered: On Demand.

ENGLISH 5534 Postcolonial Literature
An exploration of postcolonialism through the study of literary and theoretical texts created by or representing peoples whose historical experience has been decisively shaped by the experience or legacies of colonialism. Texts will be drawn from a variety of genres and from several countries. The course will consider several definitions of postcolonialism and related terms such as cosmopolitanism, hybridity, diaspora, and nationalism. Prerequisite: None Offered: On Demand.

ENGLISH 5535 Advanced Creative Writing: Poetry
An advanced poetry workshop that includes intensive reading of contemporary poetry and aims at each student creating a portfolio of publishable poems. The focus of the course will vary to address a variety of topics such as metaphor and closure; imitation and the line; form and voice. May be repeated once for credit. Offered: Every year. Prerequisite: Graduate Standing.

ENGLISH 5536 Poetic Forms
An advanced creative writing course that focuses on intensive study of and practice in metrics and traditional and nonce forms. May be repeated once for credit. Prerequisite: ENGLISH 315 or its equivalent.
ENGLISH 5537 Prose Forms
This course covers techniques for planning and drafting major prose forms. Students will learn how to use content as a guide to inventing new forms (i.e. novella, novel, linked-story collection, episodic novel, essay novel, and creative nonfiction book. Prerequisites: ENGLISH 432 ENGLISH 435 Adv CW Prose/Poetry Offered: Winter.

ENGLISH 5537 Prose Forms
This course covers techniques for planning and drafting major prose forms. Students will learn how to use content as a guide to inventing new forms (i.e. novella, novel, linked-story collection, episodic novel, essay novel, and creative nonfiction book. Prerequisites: ENGLISH 432 ENGLISH 435 Adv CW Prose/Poetry Offered: Winter.

ENGLISH 5540 American Culture
Texts that offer perspectives on key historical themes of American culture. Texts may be grouped around any culturally significant principle (e.g. region, race, gender, class, ethnicity, religion) or theme (e.g. the mythology of the frontier, marriage and domesticity, the American Dream). Students will make in-class presentations and submit papers requiring research and bibliographical work. Offered: On demand.

ENGLISH 5540 American Culture
Texts that offer perspectives on key historical themes of American culture. Texts may be grouped around any culturally significant principle (e.g. region, race, gender, class, ethnicity, religion) or theme (e.g. the mythology of the frontier, marriage and domesticity, the American Dream). Students will make in-class presentations and submit papers requiring research and bibliographical work. Offered: On demand.

ENGLISH 5541 Girls And Print Culture
This course deals with girls' relationships to the continually evolving print culture. Students will examine various literary representations of girlhood by adult writers, explore texts directed at girls (e.g., conduct books, periodicals, textbooks), and study the writing and reading practices of girls themselves. Offered: On demand.

ENGLISH 5541 Girls And Print Culture
This course deals with girls' relationships to the continually evolving print culture. Students will examine various literary representations of girlhood by adult writers, explore texts directed at girls (e.g., conduct books, periodicals, textbooks), and study the writing and reading practices of girls themselves. Offered: On demand.

ENGLISH 5545 History And Principles Of Rhetoric
A study of selected writings of ancient and modern rhetoricians illustrating key issues in the development of Western discourse theory and practice. Issues examined include the relationships between rhetoric and knowledge, orality and literacy, and rhetoric and poetics. Attention will also be given to the implications of rhetorical theory for modern language instruction. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5545 History And Principles Of Rhetoric
A study of selected writings of ancient and modern rhetoricians illustrating key issues in the development of Western discourse theory and practice. Issues examined include the relationships between rhetoric and knowledge, orality and literacy, and rhetoric and poetics. Attention will also be given to the implications of rhetorical theory for modern language instruction. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5547 Introduction To Literary Criticism
An introduction to major schools or methods of literary criticism. The first third of the course is an historical overview of criticism from Aristotle to Northrop Frye. The remainder of the semester is devoted to a study of genetic, formalist, mimetic, affective, intertextual, and deconstructionist approaches. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5547 Introduction To Literary Criticism
An introduction to major schools or methods of literary criticism. The first third of the course is an historical overview of criticism from Aristotle to Northrop Frye. The remainder of the semester is devoted to a study of genetic, formalist, mimetic, affective, intertextual, and deconstructionist approaches. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5550 Graduate Seminar
Authors, works and intellectual currents which form the basis of these seminars may vary from semester to semester, depending upon the instructor's design for the course. May be repeated for credit. Composition & Rhetoric Course 5550 covers the first halves of periods which naturally fall in two parts. Continued in ENGLISH 5555.
ENGLISH 5550 Graduate Seminar
Authors, works and intellectual currents which form the basis of these seminars may vary from semester to semester, depending upon the instructor's design for the course. May be repeated for credit. Composition & Rhetoric Course 5550 covers the first halves of periods which naturally fall in two parts. Continued in ENGLISH 5555.

ENGLISH 5550A Graduate Seminar Medieval Literature I

ENGLISH 5550A Graduate Seminar Medieval Literature I

ENGLISH 5550B Graduate Seminar Renaissance Literature I

ENGLISH 5550B Graduate Seminar Renaissance Literature I

ENGLISH 5550C Graduate Seminar Neo-Classical Literature I

ENGLISH 5550C Graduate Seminar Neo-Classical Literature I

ENGLISH 5550D Graduate Seminar 19th Century Literature I

ENGLISH 5550D Graduate Seminar 19th Century Literature I

ENGLISH 5550E Graduate Seminar American Literature I

ENGLISH 5550E Graduate Seminar American Literature I

ENGLISH 5550F Graduate Seminar Modern Literature I

ENGLISH 5550F Graduate Seminar Modern Literature I

ENGLISH 5550G Graduate Seminar Literary Criticism

ENGLISH 5550G Graduate Seminar Literary Criticism

ENGLISH 5550H Graduate Seminar Studies In Fiction I

ENGLISH 5550H Graduate Seminar Studies In Fiction I

ENGLISH 5550I Graduate Seminar In Dramatic Literature I

ENGLISH 5550I Graduate Seminar In Dramatic Literature I

ENGLISH 5550J Graduate Seminar: History Of The English Language
ENGLISH 5550J Graduate Seminar: History Of The English Language

ENGLISH 5550K Graduate Seminar: Creative Writing Prose

ENGLISH 5550K Graduate Seminar: Creative Writing Prose

ENGLISH 5550M Graduate Seminar In Rhetoric And Composition

ENGLISH 5550M Graduate Seminar In Rhetoric And Composition

ENGLISH 5550MC Greater K.C. Writing Project: Writing & The Teaching Of Literature

ENGLISH 5550MD Greater K.C. Writing Project: Critical Thinking & Process Writing

ENGLISH 5550ME Greater K.C. Writing Project: Researching The Theories Of Teaching Writing

ENGLISH 5550N Graduate Seminar: Criticism

ENGLISH 5550N Graduate Seminar: Criticism

ENGLISH 5550P Graduate Seminar: Sociolinguistics And Dialectology
Seminar focusing on the role of social factors in language use, and on the origin and development of regional and urban dialects in English. Special attention will be paid to sociolinguistic motivations for change, variation and merger in dialects and languages in contact, and Black English. Offered: On demand.

ENGLISH 5550P Graduate Seminar: Sociolinguistics And Dialectology
Seminar focusing on the role of social factors in language use, and on the origin and development of regional and urban dialects in English. Special attention will be paid to sociolinguistic motivations for change, variation and merger in dialects and languages in contact, and Black English. Offered: On demand.

ENGLISH 5551 Shakespeare Comedies And Histories
A study of Shakespeare's major comedies and history plays with special emphasis on his dramatic works before 1600. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5551 Shakespeare Comedies And Histories
A study of Shakespeare's major comedies and history plays with special emphasis on his dramatic works before 1600. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5552 Early English Drama
English religious and secular drama prior to Shakespeare. Mystery and morality plays are studied with emphasis on their literary and social backgrounds. Close readings of such works as "Everyman," "The Wakefield Second Shepherd's Play," and "The Spanish Tragedy." Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5552 Early English Drama
English religious and secular drama prior to Shakespeare. Mystery and morality plays are studied with emphasis on their literary and social backgrounds. Close readings of such works as "Everyman," "The Wakefield Second Shepherd's Play," and "The Spanish Tragedy." Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5553 Modern Drama 1880-1945
A study of modern drama: Continental, British, and American, including history and development, critical theory, and literary evaluation. This course will focus on the earlier modern playwrights from Ibsen to Shaw, with special attention to naturalism.
Students will make in-class presentations and submit papers requiring research and bibliographical work.

**ENGLISH 5553 Modern Drama 1880-1945**
A study of modern drama: Continental, British, and American, including history and development, critical theory, and literary evaluation. This course will focus on the earlier modern playwrights from Ibsen to Shaw, with special attention to naturalism. Students will make in-class presentations and submit papers requiring research and bibliographical work.

**ENGLISH 5555 Graduate Seminar**
See description ENGLISH 5550. Course ENGLISH 5555 covers the second halves of periods which naturally fall into two parts. May be repeated for credit.*

**ENGLISH 5555A Graduate Seminar Medieval Literature II**

**ENGLISH 5555B Graduate Seminar Renaissance Literature II**

**ENGLISH 5555C Graduate Seminar Neo-Classical Literature I**

**ENGLISH 5555D Graduate Seminar In 19th-Century Literature II**

**ENGLISH 5555E Graduate Seminar American Literature II**

**ENGLISH 5555F Graduate Seminar In Modern Literature II**

**ENGLISH 5555G Graduate Seminar Literary Criticism**

**ENGLISH 5555H Graduate Seminar Studies In Fiction II**
ENGLISH 5555H Graduate Seminar Studies In Fiction II

ENGLISH 5555I Graduate Seminar In Dramatic Literature II

ENGLISH 5555I Graduate Seminar In Dramatic Literature II

ENGLISH 5555J Graduate Seminar English Language

ENGLISH 5555J Graduate Seminar English Language

ENGLISH 5555K Graduate Seminar In Creative Writing:Poetry

ENGLISH 5555K Graduate Seminar In Creative Writing:Poetry

ENGLISH 5555M Graduate Seminar: Composition

ENGLISH 5555M Graduate Seminar: Composition

ENGLISH 5555N Graduate Seminar: Prose Fiction

ENGLISH 5555N Graduate Seminar: Prose Fiction

ENGLISH 5556 Studies In The Novel 1740-1900
An intensive study of no more than three major novelists of the eighteenth or nineteenth century. The content of the course will change, depending on the instructor. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5556 Studies In The Novel 1740-1900
An intensive study of no more than three major novelists of the eighteenth or nineteenth century. The content of the course will change, depending on the instructor. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5560 Special Topics
The professor who gives this course determines what its content shall be. All aspects of English studies are within its possible range.

ENGLISH 5561 Shakespeare:Tragedies And Romances
A study of Shakespeare's major tragedies and late romances with special emphasis on his dramatic literature after 1600. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5561 Shakespeare:Tragedies And Romances
A study of Shakespeare's major tragedies and late romances with special emphasis on his dramatic literature after 1600. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5562 Restoration And 18th- Century Drama
The drama after the restoration of the monarchy and the reopening of the theatres through the 18th century. Special emphasis is placed on the comedy of manners and the heroic drama in the Restoration and the sentimental comedy in the 18th-century. Includes such playwrights as Dryden, Congreve, Etherege, Wycherley, Steele, Lillo, Cumberland, Sheridan, and Goldsmith. Students will make in-class presentations and submit papers requiring research and bibliographical work.
ENGLISH 5562 Restoration And 18th- Century Drama
The drama after the restoration of the monarchy and the reopening of the theatres through the 18th century. Special emphasis is placed on the comedy of manners and the heroic drama in the Restoration and the sentimental comedy in the 18th-century. Includes such playwrights as Dryden, Congreve, Etherege, Wycherley, Steele, Lillo, Cumberland, Sheridan, and Goldsmith. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5563 Contemporary Drama
A study of contemporary drama: Continental, British, and American, including history and development, critical theory and literary evaluation. This course will focus on the more recent writers, including the absurdist, with special attention to experimental drama. This course is a continuation of ENGLISH 5553. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5563 Contemporary Drama
A study of contemporary drama: Continental, British, and American, including history and development, critical theory and literary evaluation. This course will focus on the more recent writers, including the absurdist, with special attention to experimental drama. This course is a continuation of ENGLISH 5553. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5564 Medieval Methods & Paleography
This course examines the methodology and historiography of Medieval Studies. Through an introduction to paleography, the study of medieval handwriting, it prepares students for advanced work in Medieval and Renaissance studies. Using an interdisciplinary approach, this course will examine the historical and cultural settings for medieval texts, their physical form and production, as well as the tradition of textual transmission in the medieval world. In addition to gaining familiarity with the many different types of primary sources, such as literary, artistic, legal, and notarial sources, students will be exposed to methods for practical archival work in various European nations. Cross-listed with HISTORY 5583. Prerequisite: First Year Latin or permission of instructor. Offered: On Demand

ENGLISH 5565 Studies In Modern Novel
An intensive study of no more than three major 20th- century novelists. The content of the course will change depending on the instructor. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5565 Studies In Modern Novel
An intensive study of no more than three major 20th- century novelists. The content of the course will change depending on the instructor. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5566CA Cluster Course: Images Of The Human Body In The Renaissance
Focusing on Renaissance conceptions of the human body, this cluster treats the following topics as they are reflected in Renaissance literature, art, astrology, astronomy, biology, anatomy, medicine, and politics: A) The dignity of the human body B) Microcosm and macrocosm. C) The human body and the heavens D) Stranger manifestations: freaks and beasts E) The humors F) Disorders of the human body G) The body politic H) The human body as an object of study.

ENGLISH 5566CA Cluster Course: Images Of The Human Body In The Renaissance
Focusing on Renaissance conceptions of the human body, this cluster treats the following topics as they are reflected in Renaissance literature, art, astrology, astronomy, biology, anatomy, medicine, and politics: A) The dignity of the human body B) Microcosm and macrocosm. C) The human body and the heavens D) Stranger manifestations: freaks and beasts E) The humors F) Disorders of the human body G) The body politic H) The human body as an object of study.

ENGLISH 5566CF Courts And Culture In The Middle Ages
This cluster course offers an interdisciplinary approach to the study of the Middle Ages, focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety of documentary and literary texts to investigate not only the "high culture" of the courts but also the interactions of people from various social backgrounds in Western Europe. Cross listed with FRN-LNG 5500CF and HISTORY 5500CF.

ENGLISH 5566CF Courts And Culture In The Middle Ages
This cluster course offers an interdisciplinary approach to the study of the Middle Ages, focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety of documentary and literary texts to investigate not only the "high culture" of the courts but also the interactions of people from various social backgrounds in Western Europe. Cross listed with FRN-LNG 5500CF and HISTORY 5500CF.

ENGLISH 5575 Advanced Creative Writing: Creative Nonfiction
This course is devoted to the study and crafting of the personal essay. Students will explore - and practice many different varieties of this diverse form. Whether in the guise of aesthetic appreciation, cultural critique, personal history, political
reportage, or travelogue, our course readings are first and foremost PERSONAL narratives, both troubled and enriched by their subjectivity (the essay's ‘I’). Students will study the many challenges particular to this form (most of which concern notions of truth, and its rendering) and strive to overcome them as they create vivid personal narratives of their own.

ENGLISH 5582 European Literature: 18Th Century
The 18th-century course will focus on a representative sampling from authors such as Corneille, Racine, Moliere, Voltaire, Prevost, La Bruyere, La Rochefoucauld, Montesquieu, Diderot, Rousseau, Schiller, Goethe, and Grimmelshausen. Students will make in-class presentations and submit papers requiring research and bibliographical work.

ENGLISH 5591 Research In Selected Fields
Individual study under the direction of a senior member of the department, leading to the writing of a formal or scholarly paper. Enrollment through approval forms in the English Department. May be repeated for credit.

ENGLISH 5591 Research In Selected Fields
Individual study under the direction of a senior member of the department, leading to the writing of a formal or scholarly paper. Enrollment through approval forms in the English Department. May be repeated for credit.

ENGLISH 5598A MFA Thesis
Under the guidance of a graduate MFA faculty member, students completing the MFA must complete and orally defend a publishable or producible manuscript. May be repeated for a maximum of six hours credit. Offered: On Demand.

ENGLISH 5599 Research And Thesis
A student, with permission of the graduate committee, may write a thesis for 3 hours credit.

ENGLISH 5599 Research And Thesis
A student, with permission of the graduate committee, may write a thesis for 3 hours credit.

ENGLISH 5600 Introduction To Doctoral Study In English
Introduction to research skills necessary for doctoral work, particularly for writing the thesis; attention will be paid both to traditional skills such as bibliography and to computer skills.

ENGLISH 5600 Introduction To Doctoral Study In English
Introduction to research skills necessary for doctoral work, particularly for writing the thesis; attention will be paid both to traditional skills such as bibliography and to computer skills.

ENGLISH 5601 Culminating Experience in Literature
Under the guidance of a graduate faculty member in English, students following the program of study in Literature must revise and orally defend a 20-30 page paper in Literature on a pass/no pass basis.

ENGLISH 5602 Culminating Experience in Language & Literature
Under the Guidance of a graduate faculty member in English, Students following the program of study in Language & Literature must revise and orally defend a 20-30 page paper in Language & Literature on a pass/no pass basis.

ENGLISH 5603 Culminating Experience in Manuscript, Print Culture, & Editing.
Under the guidance of a graduate faculty member in English, students following the program of Study in Manuscript, Print Culture, and Editing must revise and orally defend a 20-30 page paper in Manuscript, Print Culture, and Editing on a pass/no pass basis.

ENGLISH 5650 Doctoral Seminar

ENGLISH 5650 Doctoral Seminar

ENGLISH 5691 Doctoral Research In Selected Fields
Individual study under the direction of a senior member of the department leading to the writing of a formal or scholarly paper. May be repeated for credit.

ENGLISH 5691 Doctoral Research In Selected Fields
Individual study under the direction of a senior member of the department leading to the writing of a formal or scholarly paper. May be repeated for credit.
ENGLISH 5699 Research And Dissertation
Research and preparation for the doctoral dissertation.

ENGLISH 5899 Required Graduate Enrollment

ENGLISH 5899 Required Graduate Enrollment

ENGLISH 591CA Cluster Course: Images Of The Human Body In The Renaissance
See course description for English 400CA.

ENGLISH 591CF Cluster Course: Courts And Culture In The High Middle Ages
See course description for English 400CF.

Environmental Science (ENV-SCI)
ENV-SCI 5550 Ecotoxicology
This course addresses the fundamentals of ecotoxicology, integrating the sciences of ecology and toxicology. Students will learn the biological basis for pollutant effects on individuals and populations of plants and animals, how pollutant intensity varies as a function of bioavailability, the basics of risk assessment, and how pollutant effects are modified by ecological interactions within communities and ecosystems. The ultimate goal of ecotoxicology is to predict the effects of pollution within an ecological context. This course will be offered every other Spring semester. Prerequisites: Biol 108, Chem 211/212 or permission

Foreign Language (FRN-LNG)
FRN-LNG 5899 Required Graduate Enrollment

FRN-LNG 5899 Required Graduate Enrollment

French (FRENCH)
FRENCH 500PS Special Topics Umkc

FRENCH 5500CF Courts and Culture in the Middle Ages
This cluster course offers an interdisciplinary approach to the study of the Middle Ages, focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety of documentary and literary texts to investigate not only the "high culture" of the courts but also the interaction of people from various social backgrounds in Western Europe. Prerequisites: admission to the graduate program in Romance Languages or permission of the instructor.

FRENCH 5512 17th-century French Literature
Selected readings in the literature of the 17th century, with an emphasis on non-dramatic works. Also offered as FRENCH 412. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5512 17th-century French Literature
Selected readings in the literature of the 17th century, with an emphasis on non-dramatic works. Also offered as FRENCH 412. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5513 18th-century French Literature
Emphasis on philosophical and social significance. Authors may include Marivaux, Beaumarchais, LeSage, L'Abbe Prevost, Montesquieu, Rousseau, Diderot. Also offered as FRENCH 413. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5513 18th-century French Literature
Emphasis on philosophical and social significance. Authors may include Marivaux, Beaumarchais, LeSage, L'Abbe Prevost, Montesquieu, Rousseau, Diderot. Also offered as FRENCH 413. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.
FRENCH 5514 Medieval Literature
Selected readings in various genres including epic, romance, theater and lyric. Emphasis will be placed on the intertextual relations and the cultural and historical context surrounding text production in the Middle Ages. Also offered as FRENCH 414.
Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5517 16th-century French Literature
Selected readings in prose and poetry from Marot through Astree. Authors may include Rabelais, Ronsard, du Bellay, Montaigne, Marguerite de Navarre. Also offered as FRENCH 417

FRENCH 5520 Non-Dramatic 17th-century French Literature
Evaluation and reading of the works of Malherbe and contemporaries, of Descartes and Pascal and contemporaries, and of the great authors at the height of the classical period.

FRENCH 5524 19th-century French Literature
Selected readings in various genres from Romanticism through symbolism. Also offered as FRENCH 424.

FRENCH 5526 20th-century French Literature
Selected readings from the Belle Epoque to the contemporary period. Also offered as FRENCH 426.

FRENCH 5540 Medieval Romance
The various movements of French medieval romance from the 12th through 15th centuries with an emphasis on the 12th and 13th centuries. Analysis of literary technique and socio-historical context will be stressed. No knowledge of Old French is assumed. Also offered as French 440. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5543 Early French Theater
An examination of the development of French theater from Late Antiquity through the Renaissance, including religious and secular drama. The focus is on literary analysis of the dramatic texts, with some consideration of theater history and dramaturgy. Also offered as FRENCH 443. Prerequisites: Admission to the MA in Romance Languages & Literature program or permission of the instructor.

FRENCH 5544 Renaissance Poetry
French Poetry from the Grand Rhetoriqueurs through the Pleiade. Study of poetic forms, major poets and schools, and different approaches to analyzing poetry. Also offered as FRENCH 444. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.
FRENCH 5544 Renaissance Poetry
French Poetry from the Grand Rhetoriqueurs through the Pleiade. Study of poetic forms, major poets and schools, and different approaches to analyzing poetry. Also offered as FRENCH 444. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5545 Epistolarity and the Novel
Explorations of the genre through the analysis of 17th- and 18th- century French novels. Introduced by a theoretical review. Also offered as FRENCH 445. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5545 Epistolarity and the Novel
Explorations of the genre through the analysis of 17th- and 18th- century French novels. Introduced by a theoretical review. Also offered as FRENCH 445. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5546 17th-century French Drama
The classical period: Emphasis on Corneille, Racine and Moliere. Also offered as FRENCH 446. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5546 17th-century French Drama
The classical period: Emphasis on Corneille, Racine and Moliere. Also offered as FRENCH 446. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5547 19th-century French Poetry
The study of the poetry and dominant poetic movements of the 19th century, with special attention given to different approaches to its analysis. Also offered as FRENCH 447. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5547 19th-century French Poetry
The study of the poetry and dominant poetic movements of the 19th century, with special attention given to different approaches to its analysis. Also offered as FRENCH 447. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5548 20th century French Theater
Analysis of major currents of French theater of the 20th Century, with emphasis upon the postwar period and its movements. Also offered as FRENCH 448.

FRENCH 5548 20th century French Theater
Analysis of major currents of French theater of the 20th Century, with emphasis upon the postwar period and its movements. Also offered as FRENCH 448.

FRENCH 5552 Medieval Poetry
A study of medieval poetry including religious and secular poetry, Provencal and Old French lyric, the influence of poetry in other genres such as romance and theater, later medieval poetry of the 14th and 15th centuries, as well as a discussion of the origins of the lyric. Also offered as FRENCH 452. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5552 Medieval Poetry
A study of medieval poetry including religious and secular poetry, Provencal and Old French lyric, the influence of poetry in other genres such as romance and theater, later medieval poetry of the 14th and 15th centuries, as well as a discussion of the origins of the lyric. Also offered as FRENCH 452. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5553 Lyon, Crossroads of France and Europe
Lyon, Crossroads of France and Europe

FRENCH 5554 The Intellectual Origins of the French Revolution
Study of philosophical and political texts by Montesquieu, Rousseau, Voltaire, Diderot, etc. on government, society, language, freedom and equality. Critical study of the Enlightenment. Also offered as French 454. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.
FRENCH 5554 The Intellectual Origins of the French Revolution
Study of philosophical and political texts by Montesquieu, Rousseau, Voltaire, Diderot, etc. on government, society, language, freedom and equality. Critical study of the Enlightenment. Also offered as French 454. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5555 Fin-De-Siecle and Belle Epoque
Study of the literary, cultural and historical context of this time period in French history, for example: Symbolism, Decadence, and the years 1900-1914. Also offered as FRENCH 455. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5555 Fin-De-Siecle and Belle Epoque
Study of the literary, cultural and historical context of this time period in French history, for example: Symbolism, Decadence, and the years 1900-1914. Also offered as FRENCH 455. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5556 20th-century French Poetry
The study of 20th-century poetry with special consideration given to different approaches to its analysis. Also offered as FRENCH 456. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5556 20th-century French Poetry
The study of 20th-century poetry with special consideration given to different approaches to its analysis. Also offered as FRENCH 456. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5561 20th century French Narrative
The analysis of major currents in French 20th-century narrative, especially fiction and film. Courses will be organized around narrative themes or historical events and will include social and cultural components. Also offered as FRENCH 457. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5563 19th-century French Fiction
Studies in the birth, development, and variation of French Romanticism. Readings include de Stael, Senancour, Constant, Hugo, Stendhal and Merimee. The advent of realism and naturalism in France. Readings include Balzac, Flaubert, Daudet, De Maupassant, and Zola. Also offered as FRENCH 463. On demand.

FRENCH 5563 19th-century French Fiction
Studies in the birth, development, and variation of French Romanticism. Readings include de Stael, Senancour, Constant, Hugo, Stendhal and Merimee. The advent of realism and naturalism in France. Readings include Balzac, Flaubert, Daudet, De Maupassant, and Zola. Also offered as FRENCH 463. On demand.

FRENCH 5570 Studies in Critical Thought
Various currents of 20th-century literary criticism and their political and historical contexts. Also offered as FRENCH 470. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5570 Studies in Critical Thought
Various currents of 20th-century literary criticism and their political and historical contexts. Also offered as FRENCH 470. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5571 Autobiography
Analysis of autobiographies and autobiographical texts such as diaries and memoirs together with theoretical texts on the genre. The concentration of different periods or issues may change from semester to semester, i.e. the art of autobiography as practiced by 20th-century writers, especially women. Also offered as FRENCH 471. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5571 Autobiography
Analysis of autobiographies and autobiographical texts such as diaries and memoirs together with theoretical texts on the genre. The concentration of different periods or issues may change from semester to semester, i.e. the art of autobiography as practiced by 20th-century writers, especially women. Also offered as FRENCH 471. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

FRENCH 5572 Francophone Studies
Study of different national Francophone literatures. Reading may include writers from Quebec, Haiti, Africa, Louisiana, Vietnam, the French Indies, etc. Also offered as FRENCH 472. Prerequisites: Admission to M.A. in Romance Languages and
Literature program or permission of instructor.

**FRENCH 5572 Francophone Studies**
Study of different national Francophone literatures. Reading may include writers from Quebec, Haiti, Africa, Louisiana, Vietnam, the French Indies, etc. Also offered as FRENCH 472. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

**FRENCH 5580 Special Topics**
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor. On demand.

**FRENCH 5590 Directed Studies in French Literature**
Intensive readings in a field or literary figure to be selected by the student in consultation with the instructor. Available by permission of graduate adviser or instructor, as appropriate, only when student cannot take regularly scheduled courses.

**Geography (GEOG)**

**GEOG 5502 Environmental Remote Sensing And Digital Image Analysis**
This course will provide students with innovative techniques for landscape-level environmental analysis, geographic and geological studies, earth science research, and environmental resources management using remotely sensed data including satellite images. Students will be taught basic remote sensing concepts and technical skills, including energy radiative transfer processes, in remote sensing, sensors and resolutions, computer-based image processing and classification, and remote sensing/GIS integration. Prerequisite: GEOG 203 or permission of instructor

**GEOG 5503WI History And Philosophy Of Geoscience**
A survey of geoscientific thought since antiquity. The substance of geography will be sought primarily in scholarly treatises, formal analytical systems, and cartography, but the course also addresses geographical principles emerging from the history of such matters as government, law economy, religion, and material culture. Readings, lectures, discussions, research, writing. Prerequisite: Baccalaureate degree or permission of the instructor. On demand. Also offered as GEOG 403WI. Prerequisites: Baccalaureate degree or permission of instructor

**GEOG 5504 Biogeography And Landscape Ecology**
Principles and applications of biogeography and landscape ecology, emphasizing distribution of major ecosystems and related plants and animal species on earth, biodiversity, landscape patterns and processes, and physical, biological, and human interactions. The course explores ecosystem and landscape analyses using advanced GIS, remote sensing, and spatial modeling methods for real problem solving in environmental and biological research, ecosystem conservation, and urban planning and studies. Prerequisites: GEOG 203, GEOG 402 / GEOG 5502, or permission of instructor.

**GEOG 5504 Biogeography And Landscape Ecology**
Principles and applications of biogeography and landscape ecology, emphasizing distribution of major ecosystems and related plants and animal species on earth, biodiversity, landscape patterns and processes, and physical, biological, and human interactions. The course explores ecosystem and landscape analyses using advanced GIS, remote sensing, and spatial modeling methods for real problem solving in environmental and biological research, ecosystem conservation, and urban planning and studies. Prerequisites: GEOG 203, GEOG 402 / GEOG 5502, or permission of instructor.

**GEOG 5506 Global Environmental Change**
This course will examine the current rates of global environmental change and potential causes in the context of Earth's natural climate variability. The course will follow a seminar format. Students will read and discuss published articles on current and emerging theories of forcing mechanisms in the Earth's systems. Additional in-depth research and written evaluation are required for graduate credit. Prerequisites: None
GEOG 5506 Global Environmental Change
This course will examine the current rates of global environmental change and potential causes in the context of Earth's natural climate variability. The course will follow a seminar format. Students will read and discuss published articles on current and emerging theories of forcing mechanisms in the Earth's systems. Additional in-depth research and written evaluation are required for graduate credit. Prerequisites: None

GEOG 5507 Advanced Geographic Information Science
Prerequisite: GEOG 203 or permission of instructor Offered: On Demand

GEOG 5508 Archaeological Field Survey Methods
This class offers instruction in the basic skills required to conduct field surveys in archaeology and other geosciences disciplines. In the classroom, students learn about the development of archaeology as a scientific discipline and how to recognize some of the basic field data sought by archaeologists. Students earn about mapping and land navigation techniques. The field phase of instruction includes visits to archaeological sites in the region.

GEOG 5509 Urban Geography
Historical development, morphology and functions of urban places, including intercity relationships and the relationship between cities and their hinterlands; emphasis on American cities. Students will complete a series of reports and a term paper. Offered: On Demand

GEOG 5510 Landscape, Language, Literature, And Law
An examination of the geographic underpinnings and implications of languages, literatures, and jurisprudence. The course explores languages' historic rootedness in the interactions between human beings and their surroundings; the varying geographic expressiveness and discrimination of languages; the effect and significance of literary evocations of landscapes; and the cultural and environmental geographic content of the language of law. Readings, lectures, discussions, writing. Prerequisite: Permission of the instructor. Offered: On demand. Also offered as GEOG 410.

GEOG 5512 Global Tourism
This course is a regional survey of world tourism. Topics include the uniqueness of place, the marketing of tourist destinations, and the cultural, economic, and environmental impacts on host societies. Prerequisites: GEOG 105, or GEOG 200, or GEOG 202, or permission. Offered: On demand.

GEOG 5515 History And Philosophy Of Cartography
An examination of the techniques, assumptions, psychology, and cultural implications of mapping from the Stone Age to the age of satellites and the computerized Geographic Information System. Readings, lectures, discussions, writing. Prerequisite: Baccalaureate degree or permission of the instructor. Offered: On demand. Also offered as GEOG 415.

GEOG 5526 Paleocology: Microfossils And Climate Change
Paleocology will focus on questions addressing past environments and past climates based on the ecology of microfossils. Micro-organisms are very sensitive to a wide variety of environmental conditions including temperature, precipitation, hydrology, water chemistry, salinity, habitat, and pollution. The fossil remains of these organisms are used as proxy indicators for reconstructing past environmental conditions, climate change, vegetation dynamics, and human impacts. Students will have the opportunity to process microfossils and make interpretations based on analysis of data. Offered: Every other Fall Prerequisite: Permission of Instructor
GEOG 5526 Paleoecology: Microfossils And Climate Change
Paleoecology will focus on questions addressing past environments and past climates based on the ecology of microfossils. Micro-organisms are very sensitive to a wide variety of environmental conditions including temperature, precipitation, hydrology, water chemistry, salinity, habitat, and pollution. The fossil remains of these organisms are used as proxy indicators for reconstructing past environmental conditions, climate change, vegetation dynamics, and human impacts. Students will have the opportunity to process microfossils and make interpretations based on analysis of data. Offered: Every other Fall Prerequisite: Permission of Instructor

GEOG 5530 Location Theory
An analysis and evaluation of the basic theories that have been developed to account for the spatial arrangements of economic activity. Emphasis on urban areas as nodes of economic interaction. Three hours lecture and discussion per week. Prerequisite: GEOG 311 and six hours in economics or urban studies. On demand.

GEOG 5535 Geoarchaeology
This course examines geomorphological and archaeological methods used in reconstructing sites, settlement patterns, and paleoenvironments; evaluating archeological site integrity; and assessing the impact of development, with the emphasis on geomorphological evidence. Prerequisite: Physical Geography/Earth Science; Geomorphology; or permission of instructor. No archaeological background necessary. On demand. Also offered as GEOG 435.

GEOG 5537 Population Geography
An analysis of human population: how they grow, their changing compositions, and how and why people migrate from one place to another. Basic demographic processes-mortality, fertility, and migration and theory and techniques for their study are discussed. The relationships between population growth and population planning, immigration, urbanization and cities, and the environment.

GEOG 5542 Quaternary Environments
This course reviews earth climatic history and focuses on major mechanisms for global and regional climate change. Methods of paleoclimatic reconstruction are examined, including analysis of proxy data and climate modeling. Application of these methods toward prediction of future climate change is also explored. Prerequisites: Geography 215; Geogrophy 314 or Geology 314; or permission of instructor. On demand. Also offered as GEOG 442.

GEOG 5544 Spatial Data Analysis
This course will focus on advanced computation methods for the analysis and modeling of complex and often non-deterministic processes in the spatial and environmental sciences. Students will be introduced to innovative techniques for analyzing large datasets with attribute spaces of very high dimensionality, including hyper-spectral remote sensing data. Prerequisites: GEOG 402 or permission of instructor.

GEOG 5546 Global Water and Sustainability
This course examines the physical characteristics of water and its role in Earth systems. The challenges facing societies in an era of rapidly changing climate are explored. Offered: On Demand.

GEOG 5548 Satellite Climatology
Use of satellite observations to study the climate system. Discussions consider the development of satellite climatology, sensors, platforms and methodologies use to estimate climate variables from radiance measurements. Aspects of climate that are emphasized include cloud climatologies, cloud systems, atmospheric moisture, radiation budget, and land-surface conditions. Three hours of lecture and one hour of lab per week. Prerequisites: GEOG 215 or GEOG 319, or permission of instructor. Offered: Every other Spring

GEOG 5595 Graduate Seminar In Geosciences I
An introduction to graduate research in the Dept. of Geosciences. Students will attend lectures by faculty and become familiar
with research techniques, equipment, and thesis opportunities. Prerequisites: Baccalaureate Offered: Every Fall

GEOG 5595 Graduate Seminar In Geosciences I
An introduction to graduate research in the Dept. of Geosciences. Students will attend lectures by faculty and become familiar with research techniques, equipment, and thesis opportunities. Prerequisites: Baccalaureate Offered: Every Fall

GEOG 5597 Graduate Seminar In Geosciences II
Graduate students in the Geosciences Department will explore the different components of a research project through readings, lectures, writing, and oral presentations. Offered: Winter

GEOG 5598 Special Topics In Geography
Advanced independent research in Cultural or Physical Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

GEOG 5598 Special Topics In Geography
Advanced independent research in Cultural or Physical Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

GEOG 5598A Special Topics In Cultural Geography
Advanced independent research in Cultural Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

GEOG 5598A Special Topics In Cultural Geography
Advanced independent research in Cultural Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

GEOG 5598B Special Topics In Physical Geography
Advanced independent research in Physical Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

GEOG 5598B Special Topics In Physical Geography
Advanced independent research in Physical Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

GEOG 5598D Special Topics In Advanced Gis And Remote Sensing
Advanced independent research in geographic information science (GIS) and remote sensing. Offered: On Demand Prerequisite: Permission of instructor

GEOG 5598D Special Topics In Advanced Gis And Remote Sensing
Advanced independent research in geographic information science (GIS) and remote sensing. Offered: On Demand Prerequisite: Permission of instructor

GEOG 5598F Special Topics: Geostatistics And Modeling
Advanced independent research in geostatistics and modeling techniques. Offered: On Demand Prerequisites: Permission of instructor

GEOG 5598F Special Topics: Geostatistics And Modeling
Advanced independent research in geostatistics and modeling techniques. Offered: On Demand Prerequisites: Permission of instructor

GEOG 5598K Issues In Waste Management
This course focuses on the critical problems of managing the waste materials generated in our society. The course includes discussion of various types of waste-municipal solid waste, hazardous (industrial) waste, nuclear and medical wastes. Sources, handling, storage, transportation, treatment and disposal of these wastes are reviewed. Experts from government and the waste management industry give guest lectures. Prerequisites: None. Offered: Fall & Winter.

GEOG 5598K Issues In Waste Management
This course focuses on the critical problems of managing the waste materials generated in our society. The course includes discussion of various types of waste-municipal solid waste, hazardous (industrial) waste, nuclear and medical wastes. Sources, handling, storage, transportation, treatment and disposal of these wastes are reviewed. Experts from government and the waste management industry give guest lectures. Prerequisites: None. Offered: Fall & Winter.

GEOG 5599 Research And Thesis Geography
Students will conduct research and writing in support of a thesis topic, which will have been approved in advance by the appropriate graduate advisory committee. Credit load will also be approved in advance by the student's graduate advisor. Offered: On Demand Prerequisite: Baccalaureate
GEOG 5599 Research And Thesis Geography
Students will conduct research and writing in support of a thesis topic, which will have been approved in advance by the appropriate graduate advisory committee. Credit load will also be approved in advance by the student's graduate advisor. Offered: On Demand Prerequisite: Baccalaureate

GEOG 5690 Special Research Topics
Student will produce a major research paper suitable for publication under the direction of their instructor.

GEOG 5699R Research And Dissertation
Research for dissertation in partial fulfillment of the Geosciences requirements for the Ph.D. degree.

GEOG 800PS Special Topics Umkc

Geology (GEOLOGY)
GEOLOGY 5508 Archaeological Field Survey Methods
this class offers instruction in the basic skills required to conduct field surveys in archaeology and other geosciences disciplines. In the classroom, students learn about the development of archaeology as a scientific discipline and how to recognize some of the basic field data sought by archaeologists. Students learn about mapping and land navigation techniques. The field phase of instruction includes visits to archaeological sites in the region.

GEOLOGY 5509 Field Study in Archaeology
This class offers students an opportunity to attend a field school in archaeology. Students will be taught how to: design archaeological research, set-up excavation, keep a wide range of excavation records, make maps and drawings, take photographs related to excavation problems, identify and recover a broad spectrum of artifact and faunal remains, collect samples for specialized analyses and use a wide range of excavation tools. This course will also introduce students to recording and analyzing excavated materials in the archaeological laboratory. Prerequisite: Consent of instructor.

GEOLOGY 5512 Geology And Hazardous Waste Management
Nature, sources and characterization of hazardous waste; collection, transportation and disposal of hazardous wastes. Fundamentals of toxicology and risk assessment. Application of geologic principles and methods in the assessments and remediation of abandoned hazardous waste sites and contaminated aquifers. Review of selected case histories. Experts from government and private organizations will be invited to deliver guest lectures. An out-of-town field trip to a hazardous waste site is required. A term paper based on library research or an approved experimental project is required for graduate credit. Prerequisites: GEOLOGY 325, GEOLOGY 342 & GEOLOGY 350 or permission of the instructor.

GEOLOGY 5512 Geology And Hazardous Waste Management
Nature, sources and characterization of hazardous waste; collection, transportation and disposal of hazardous wastes. Fundamentals of toxicology and risk assessment. Application of geologic principles and methods in the assessments and remediation of abandoned hazardous waste sites and contaminated aquifers. Review of selected case histories. Experts from government and private organizations will be invited to deliver guest lectures. An out-of-town field trip to a hazardous waste site is required. A term paper based on library research or an approved experimental project is required for graduate credit. Prerequisites: GEOLOGY 325, GEOLOGY 342 & GEOLOGY 350 or permission of the instructor.

GEOLOGY 5513 Advanced Mineral Deposits
Distribution, origin and environmental implications of extractable resources including non-metallic deposits, ores, and selected energy resources. Prerequisites: GEOL 312, and GEOL 325; graduate student status. Offered: On Demand

GEOLOGY 5521 Advanced Methods for Earth and Environmental Science
This course will provide students with an inquiry-based learning experience that focuses on the application of field methods for understanding surface and subsurface earth processes and environmental issues. Students will collect field data at off campus site, conduct periodic monitoring, and analyze samples using departmental instrumentation. Prerequisite: GEOLOGY 220, GEOLOGY 220L or ENV-SCI 110R and ENV-SCI 110L

GEOLOGY 5525 Quaternary Geology
The study of Quaternary processes, surficial deposits, and land forms. Course content will cover both the glaciated and
nonglaciated portions of the United States as well as the interrelations between Quaternary geology and urbanization. Three hour lecture. Field trips. Prerequisite: GEOLOGY 314, baccalaureate degree in geology or permission of the instructor.

**GEOLOGY 5525 Quaternary Geology**
The study of Quaternary processes, surficial deposits, and land forms. Course content will cover both the glaciated and nonglaciated portions of the United States as well as the interrelations between Quaternary geology and urbanization. Three hour lecture. Field trips. Prerequisite: GEOLOGY 314, baccalaureate degree in geology or permission of the instructor.

**GEOLOGY 5531 X-Ray Diffraction And Fluorescence Methods: X-Ray Mthds Geol/Anly**
Theory and practical application of x-ray diffraction and fluorescence methods in characterizing geologic materials. Prerequisite: GEOLOGY 312 or consent of instructor. Two hours lecture and one 2-hour lab per week for 8 weeks.

**GEOLOGY 5531 X-Ray Diffraction And Fluorescence Methods: X-Ray Mthds Geol/Anly**
Theory and practical application of x-ray diffraction and fluorescence methods in characterizing geologic materials. Prerequisite: GEOLOGY 312 or consent of instructor. Two hours lecture and one 2-hour lab per week for 8 weeks.

**GEOLOGY 5532 Icpms Applications In Geology**
Theory and practical application of Inductively-Coupled Plasma Mass Spectrometry in the geosciences and environmental sciences. Prerequisite: GEOLOGY 312 or consent of instructor. Two hours lecture and discussion, and one 2-hour lab per week for 8 weeks.

**GEOLOGY 5532 Icpms Applications In Geology**
Theory and practical application of Inductively-Coupled Plasma Mass Spectrometry in the geosciences and environmental sciences. Prerequisite: GEOLOGY 312 or consent of instructor. Two hours lecture and discussion, and one 2-hour lab per week for 8 weeks.

**GEOLOGY 5534 Hazardous Waste Operation Management**
Overview of federal regulations dealing with hazardous waste management, toxicology, hazard communication, site management, air monitoring, operating procedures, and health and safety. The course includes hands-on training on spill control, equipment use and emergency use and emergency response. Practical training involves physical stress and participants must be in good physical health. This course satisfies OSHA's 40 hour training requirement for hazardous waste personnel. Prerequisites: GEOG 335 / GEOLOGY 335 or permission of instructor. Offered: Every Summer

**GEOLOGY 5534 Hazardous Waste Operation Management**
Overview of federal regulations dealing with hazardous waste management, toxicology, hazard communication, site management, air monitoring, operating procedures, and health and safety. The course includes hands-on training on spill control, equipment use and emergency use and emergency response. Practical training involves physical stress and participants must be in good physical health. This course satisfies OSHA's 40 hour training requirement for hazardous waste personnel. Prerequisites: GEOG 335 / GEOLOGY 335 or permission of instructor. Offered: Every Summer

**GEOLOGY 5535 Aqueous Geochemistry**
This course is directed to two objectives. First it will equip the students with a basic understanding of the geochemical principles and calculations which are directly related to environmental problems and second, it will provide the student with a basic understanding of specific problem areas in environmental geochemistry. Prerequisites: CHEM 211 and CHEM 212 or equivalents. Baccalaureate degree in geology or permission of the instructor. Offered: On demand.

**GEOLOGY 5535 Aqueous Geochemistry**
This course is directed to two objectives. First it will equip the students with a basic understanding of the geochemical principles and calculations which are directly related to environmental problems and second, it will provide the student with a basic understanding of specific problem areas in environmental geochemistry. Prerequisites: CHEM 211 and CHEM 212 or equivalents. Baccalaureate degree in geology or permission of the instructor. Offered: On demand.

**GEOLOGY 5541 Environmental Geophysics**
Fundamental theory and near-surface applications of the geophysical methods including seismic methods, potential methods, and electrical methods. Emphasis will be placed on the use of these methods in environmental and engineering investigations, addressing such issues as water resources, contaminant transport, geotechnical properties, and archaeological protection. course will include a field component illustrating application of selected techniques to a local environmental problem. Prerequisites: Baccalaureate degree in Geology or permission of instructor.

**GEOLOGY 5542 Electrical Methods In Environmental Geophysics**
(3) Fundamental theory and near-surface applications of the electrical geophysical methods; (1) electrical resistivity, (2) electromagnetics, (3) ground penetrating radar, and (4) induced polarization. Emphasis will be placed on the use of these methods
in environmental and engineering investigations, addressing such issues as water resources, contaminant transport, geotechnical properties and archaeological protection. Course will include a field component illustrating application of selected techniques to a local environmental problem. Prerequisites: Baccalaureate degree in Geology or permission of instructor.

**GEOLOGY 5542** Electrical Methods In Environmental Geophysics
(3) Fundamental theory and near-surface applications of the electrical geophysical methods; (1) electrical resistivity, (2) electromagnetics, (3) ground penetrating radar, and (4) induced polarization. Emphasis will be placed on the use of these methods in environmental and engineering investigations, addressing such issues as water resources, contaminant transport, geotechnical properties and archaeological protection. Course will include a field component illustrating application of selected techniques to a local environmental problem. Prerequisites: Baccalaureate degree in Geology or permission of instructor.

**GEOLOGY 5546** Petroleum Geology
This course addresses the geological habitat of oil and natural gas, the impacts of petroleum on society, subsurface mapping techniques, and the acquisition and interpretation of subsurface and production data. Prerequisites: Geol 220, baccalaureate degree in geology, or permission of instructor.

**GEOLOGY 5551** Geotechnics
Integration of the basic principles and concepts from material sciences, rock and soil mechanics, and civil engineering. Mechanical properties, geologic aspects and engineering classifications of earth materials and the effects of physical forces on their engineering behavior will be emphasized. Three hours of lecture and two hours of laboratory each week. Field trips. Prerequisite: PHYSICS 210, PHYSICS 220, PHYSICS 230, GEOLOGY 350 or permission of the instructor.

**GEOLOGY 5555** Environmental Impact Analysis
A systematic analysis of the spectrum of environmental changes related to human use and occupancy in urban settings. Study of the nature of activities such as industrialization, mining, urbanization and transportation, and their effect on the specific site and general region. Methods of measuring aesthetic and economic quality of the urban areas will be explored in an attempt to facilitate writing environmental impact statements. Prerequisites: Baccalaureate degree in geology or permission of the instructor.

**GEOLOGY 5559** Inquiry-Based Field Studies For Teachers
Inquiry-based studies in environmental science, environmental chemistry and geology involving collaborations between course participants, practicing scientists and professional educators. The course is designed especially for pre- and in-service teachers of all levels and contact areas to enhance critical thinking, problem solving and process skills as defined by state and national standards. Projects will balance field and lab studies with analysis and presentation of results through electronic, oral and written means. Prerequisites: Permission of instructor. Offered: On demand

**GEOLOGY 5559** Inquiry-Based Field Studies For Teachers
Inquiry-based studies in environmental science, environmental chemistry and geology involving collaborations between course participants, practicing scientists and professional educators. The course is designed especially for pre- and in-service teachers of all levels and contact areas to enhance critical thinking, problem solving and process skills as defined by state and national standards. Projects will balance field and lab studies with analysis and presentation of results through electronic, oral and written means. Prerequisites: Permission of instructor. Offered: On demand

**GEOLOGY 5561** Geologic Mapping
Analysis of the stratigraphic section in the greater Kansas City area by field investigation. Compilation of descriptive data and the construction of detailed geologic maps. Practical problems to determine the most beneficial use of the land in an area that is rapidly becoming urbanized. Prerequisite: Baccalaureate degree in geology or permission of the instructor. Previous field mapping experience highly recommended.

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Analysis of the stratigraphic section in the greater Kansas City area by field investigation. Compilation of descriptive data and the
construction of detailed geologic maps. Practical problems to determine the most beneficial use of the land in an area that is rapidly becoming urbanized. Prerequisite: Baccalaureate degree in geology or permission of the instructor. Previous field mapping experience highly recommended.

GEOLOGY 5570 Hydrogeology
Geology and hydrologic factors controlling the occurrence, movement, quality, recovery and development of water supply and distribution. Problems relating to urbanization of flood plains. Prerequisite: Baccalaureate degree in Geology or permission of the instructor.

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Geology and hydrologic factors controlling the occurrence, movement, quality, recovery and development of water supply and distribution. Problems relating to urbanization of flood plains. Prerequisite: Baccalaureate degree in Geology or permission of the instructor.

GEOLOGY 5571 Tectonics
A detailed inquiry into plate tectonics and the geophysical and geological data that define the motion of lithospheric plates. Global examples of divergent, convergent, and transform plate boundaries will be studied through lectures, discussions, problem sets, and term papers. Prerequisite: GEOLOGY 325 and GEOLOGY 350. Offered: On demand.

GEOLOGY 5571 Tectonics
A detailed inquiry into plate tectonics and the geophysical and geological data that define the motion of lithospheric plates. Global examples of divergent, convergent, and transform plate boundaries will be studied through lectures, discussions, problem sets, and term papers. Prerequisite: GEOLOGY 325 and GEOLOGY 350. Offered: On demand.

GEOLOGY 5572 Earthquake Geology
This course is detailed inquiry into the study of present and past earthquakes as they are preserved in the seismological, geophysical, and geological record. Global examples of earthquakes will be studied through lectures, discussions, problem sets, term papers, field trips and field projects. Prerequisite: GEOLOGY 350 or permission of the instructor. Offered: On demand.

GEOLOGY 5572 Earthquake Geology
This course is detailed inquiry into the study of present and past earthquakes as they are preserved in the seismological, geophysical, and geological record. Global examples of earthquakes will be studied through lectures, discussions, problem sets, term papers, field trips and field projects. Prerequisite: GEOLOGY 350 or permission of the instructor. Offered: On demand.

GEOLOGY 5595 Graduate Seminar In Geosciences I
An introduction to graduate research in the Dept. of Geosciences. Students will attend lectures by faculty and become familiar with research techniques, equipment, and thesis opportunities. Offered: Every Fall Prerequisite: Baccalaureate

GEOLOGY 5595 Graduate Seminar In Geosciences I
An introduction to graduate research in the Dept. of Geosciences. Students will attend lectures by faculty and become familiar with research techniques, equipment, and thesis opportunities. Offered: Every Fall Prerequisite: Baccalaureate

GEOLOGY 5597 Graduate Seminar In Geosciences II
Graduate students in the Geosciences Department will explore the different components of a research project through readings, lectures, writing, and oral presentations. Offered: Winter Semester Prerequisites: Baccalaureate

GEOLOGY 5597 Graduate Seminar In Geosciences II
Graduate students in the Geosciences Department will explore the different components of a research project through readings, lectures, writing, and oral presentations. Offered: Winter Semester Prerequisites: Baccalaureate

GEOLOGY 5598 Special Topics In Urban Environmental Geology
Individual research into practical geoscience problems in the urban environment. Provides opportunity for individual research in applied geology. Topic and method to be established by student and academic supervisor prior to enrollment. Instructor: By arrangement.

GEOLOGY 5598 Special Topics In Urban Environmental Geology
Individual research into practical geoscience problems in the urban environment. Provides opportunity for individual research in applied geology. Topic and method to be established by student and academic supervisor prior to enrollment. Instructor: By arrangement.
GEOLOGY 5598A Special Topics In Urban Environmental Geology: Petroleum Geology

GEOLOGY 5598A Special Topics In Urban Environmental Geology: Petroleum Geology

GEOLOGY 5598B Spec Topics In Urban Environmental Geology: Soil/Rock Mechanics

GEOLOGY 5598B Spec Topics In Urban Environmental Geology: Soil/Rock Mechanics

GEOLOGY 5598C Sp Topics In Urban Environmental Geol: Stratigraphy/Paleontology

GEOLOGY 5598C Sp Topics In Urban Environmental Geol: Stratigraphy/Paleontology

GEOLOGY 5598D Spec Topics In Urban Environmental Geology-Environmental Geology

GEOLOGY 5598D Spec Topics In Urban Environmental Geology-Environmental Geology

GEOLOGY 5598E Special Topics In Energy And Mineral Resources
This course provides students an opportunity for advanced independent research in energy and mineral resources. Prerequisite: Permission of instructor

GEOLOGY 5598E Special Topics In Energy And Mineral Resources
This course provides students an opportunity for advanced independent research in energy and mineral resources. Prerequisite: Permission of instructor

GEOLOGY 5598H Special Topics In Urban Environmental Geology - Geochemistry and Mineralogy
Prerequisites: Permission of instructor.

GEOLOGY 5598I Special Topics In Urban Environmental Geology

GEOLOGY 5598I Special Topics In Urban Environmental Geology

GEOLOGY 5598J Special Topics In Urban Environmental Geology: Environmental Sci

GEOLOGY 5598J Special Topics In Urban Environmental Geology: Environmental Sci

GEOLOGY 5598K Issues In Waste Management
This course focuses on the critical problems of managing the waste materials generated in our society. The course includes discussion of various types of waste-municipal solid waste, hazardous (industrial) waste, nuclear and medical wastes. Sources, handling, storage, transportation, treatment and disposal of these wastes are reviewed. Experts from government and the waste management industry give guest lectures. Prerequisites: None. Offered: Fall & Winter.

GEOLOGY 5598K Issues In Waste Management
This course focuses on the critical problems of managing the waste materials generated in our society. The course includes discussion of various types of waste-municipal solid waste, hazardous (industrial) waste, nuclear and medical wastes. Sources, handling, storage, transportation, treatment and disposal of these wastes are reviewed. Experts from government and the waste management industry give guest lectures. Prerequisites: None. Offered: Fall & Winter.

GEOLOGY 5598M Special Topics In Geostatistics And Modeling
Advanced independent research in geostatistics and modeling techniques. Prerequisite: Permission of instructor Offered: On
GEOLOGY 5598M Special Topics In Geostatistics And Modeling
Advanced independent research in geostatistics and modeling techniques. Prerequisite: Permission of instructor Offered: On demand

GEOLOGY 5599 Research And Thesis: Geology
Individual directed research by the student leading to the preparation of a formal written thesis and oral defense. Instructor: By arrangement.

GEOLOGY 5599 Research And Thesis: Geology
Individual directed research by the student leading to the preparation of a formal written thesis and oral defense. Instructor: By arrangement.

GEOLOGY 5690 Special Research Topics
Student will produce a major research paper suitable for publication under the direction of their instructor.

GEOLOGY 5690 Special Research Topics
Student will produce a major research paper suitable for publication under the direction of their instructor.

GEOLOGY 5699 Research And Thesis: Geology
Individual directed research by the student leading to the preparation of a formal written thesis and oral defense. Instructor: By arrangement.

GEOLOGY 5699 Research And Thesis: Geology
Individual directed research by the student leading to the preparation of a formal written thesis and oral defense. Instructor: By arrangement.

GEOLOGY 5699 Research And Dissertation
Research for dissertation in partial fulfillment of the Geosciences requirements for the Ph.D. degree.

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Research for dissertation in partial fulfillment of the Geosciences requirements for the Ph.D. degree.

GEOLOGY 5899 Required Graduate Enrollment

History (HISTORY)
HISTORY 500CA Cluster Course: Images Of The Human Body In The Renaissance
See course description for History 400CA.

HISTORY 500CB Cluster Course: Ethical & Social History Of American Capitalism
See course description for History 400CB.

HISTORY 500PS Special Topics Umkc

HISTORY 501PS Special Topics Umkc

HISTORY 502PS Special Topics Umkc

HISTORY 510PS Special Topics Umkc

HISTORY 516B Seminar In American History Urban Factors

HISTORY 516C Seminar: American Party Politics

HISTORY 516D Seminar: American Recent Us
HISTORY 516E Seminar: American History Middle Per

HISTORY 5500B Special Topics In History For Graduate Studies

HISTORY 5500BB Special Topics in History for Graduate Students

HISTORY 5500C Special Topics In History For Graduate Studies

HISTORY 5500CL Cluster Course: Nordic Culture

HISTORY 5500CL Cluster Course: Nordic Culture

HISTORY 5500CP Special Topics In History For Graduate Studies

HISTORY 5500CY Cluster Course: The Ancient World And The Cinema

HISTORY 5500CY Cluster Course: The Ancient World And The Cinema

HISTORY 5500CZ Special Studies History

HISTORY 5500D Special Topics in History For Graduate Studies

HISTORY 5500E Special Topics In History For Graduate Studies

HISTORY 5500G Special Topics in History for Graduate Students

HISTORY 5500GB Special Topics in History for Graduate Students

HISTORY 5500GR Special Topics in History for Graduate Students

HISTORY 5500H Special Topics In History For Graduate Students

HISTORY 5500JCA Special Topics in History for Graduate Students

HISTORY 5500LA Special Topics in History for Graduate Students

HISTORY 5500P Special Topics In History For Graduate Studies

HISTORY 5500R Special Topics In History For Graduate Studies

See course description HISTORY 400.
HISTORY 5500R Special Topics In History For Graduate Studies
See course description HISTORY 400.

HISTORY 5500RC Special Topics In History For Graduate Studies

HISTORY 5500RD Special Topics In History For Graduate Studies

HISTORY 5500RD Special Topics In History For Graduate Studies

HISTORY 5500RJ Special Topics In History For Graduate Studies

HISTORY 5500RJ Special Topics In History For Graduate Studies

HISTORY 5500SS Special Topics In History For Graduate Studies

HISTORY 5500W Special Topics in History for Graduate Students

HISTORY 5500Z Special Studies: Labor In Industrial America
This course examines the history of work and the working class in the U.S. from 1877 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers' relationships with other social groups, and the role played by gender, race, and ethnicity in uniting or dividing the working class.

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HISTORY 5501A Religion In America
An in-depth examination of selected aspects of the history of religions in America from the colonial period to the present. Special emphasis will be given to methodological issues in the study of American religious history. Offered: On Demand

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An in-depth examination of selected aspects of the history of religions in America from the colonial period to the present. Special emphasis will be given to methodological issues in the study of American religious history. Offered: On Demand

HISTORY 5502 America,1000-1763: The Formative Era
Early American history encompasses the formative era of many institutions and attitudes which still persist in present-day America. A study of how these patterns and policies emerged will enlighten us as to our current ways our society seeks to adapt to change.

HISTORY 5502 America,1000-1763: The Formative Era
Early American history encompasses the formative era of many institutions and attitudes which still persist in present-day America. A study of how these patterns and policies emerged will enlighten us as to our current ways our society seeks to adapt to change.

HISTORY 5503 America, 1763-1783: The Revolutionary Heritage
The American Revolution created American history by creating a new nation. What the American Revolution was depends to a large extent upon what Americans think they are or ought to be. The goals of this course, therefore, are twofold: (1) to probe the nature, causes and consequences of the American Revolution; (2) to assess the intentions and behavior of both the Framers of the Constitution in 1763-1783 and the inheritors of modern America.
HISTORY 5503 America, 1763-1783: The Revolutionary Heritage
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HISTORY 5504 America, 1783-1828: The National Experience
See course description HISTORY 304.

HISTORY 5504 America, 1783-1828: The National Experience
See course description HISTORY 304.

HISTORY 5505 America, 1828-1852: The Jacksonian Period
See course description HISTORY 305.

HISTORY 5505 America, 1828-1852: The Jacksonian Period
See course description HISTORY 305.

HISTORY 5506 America, 1850-1877: Civil War And Reconstruction
See course description HISTORY 306.

HISTORY 5506 America, 1850-1877: Civil War And Reconstruction
See course description HISTORY 306.

HISTORY 5506A History of Christianity to Middle Ages
This course examines the historical and theological development of Christianity from its origins to the High Middle Ages. The main themes follow the mechanisms and conditions shaping Christianity's expansion into a major social, institutional, and intellectual force with a focus on pattern of crisis and reform. This course is based on the study of primary sources (both texts and objects) and modern scholarship.

HISTORY 5507 America 1877-1917: Development Of Industrial America
See course description HISTORY 307.

HISTORY 5507 America 1877-1917: Development Of Industrial America
See course description HISTORY 307.

HISTORY 5507A The History of Christianity from the Middle Ages to the Present
This course examines the historical and theological development of Christianity from the High Middle Ages to the present. The main themes follow the mechanisms and conditions shaping Christianity's expansion into a major social, institutional and intellectual force with a focus on patterns of crisis and reform. This course is based on the study of primary sources (both texts and objects) and modern scholarship.

HISTORY 5508A America 1914-1945: The Era Of The World Wars
See course description for HISTORY 308B.

HISTORY 5508A America 1914-1945: The Era Of The World Wars
See course description for HISTORY 308B.

HISTORY 5508B America 1945-Present: Our Times
See course description for HISTORY 308B.

HISTORY 5508B America 1945-Present: Our Times
See course description for HISTORY 308B.

HISTORY 5511 Medieval Civilization I
See course description HISTORY 411.

HISTORY 5511 Medieval Civilization I
See course description HISTORY 411.
HISTORY 5512 Medieval Civilization II
See course description HISTORY 412R.

HISTORY 5512 Medieval Civilization II
See course description HISTORY 412R.

HISTORY 5512A Medieval Women & Children
This course explores the roles of women in the social, economic, political, and cultural environments of medieval and early modern Europe. We examine the lives of women in all areas of life, from the ordinary to the extraordinary, in urban and rural environments, from the centers of religious and political power to the margins of society. Focus will be on the world of work for urban and peasant women and on the social and legal institutions of marriage, kinship, and the family. The course makes extensive use of primary source by and about women during this period.

HISTORY 5512B The Black Death And Late Medieval Society
This course examines all aspects of late medieval and early Renaissance society in Western Europe. The Back Death of 1348/1349 serves as the entry point into the historical study of the economy, demography, and culture during this transitional period.

HISTORY 5513 Renaissance
See course description HISTORY 413.

HISTORY 5513 Renaissance
See course description HISTORY 413.

HISTORY 5514 Reformation
See course description HISTORY 414.

HISTORY 5514 Reformation
See course description HISTORY 414.

HISTORY 5515B 17Th And 18Th Century European History
This course is designed to present the upper-division undergraduate with a firm grasp of the major intellectual, cultural, political and economic development of 17th and 18th century Europe. It considers the bitter Thirty Years War in Century Europe, the rise of the Netherlands, the fall of Italy and Spain, the rise of constitutional and absolutist styles of government, the scientific revolution, the colonization by Europeans of the Pacific and Indian Ocean Basins, Enlightenment political philosophy, the Agricultural Revolution, and the French Revolution. Also offered for undergraduates as HISTORY 415B. Graduate students will be held to a higher standard in terms of additional, in-depth historiographic research, writing, and discussion.

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HISTORY 5516 The French Revolution And Napoleon
See course description HISTORY 416R. Fall.

HISTORY 5516 The French Revolution And Napoleon
See course description HISTORY 416R. Fall.

HISTORY 5517 19Th Century European History
This upper-division course will survey significant trends in warfare, politics, economics, social relations and culture in 19th century Europe, paying particular attention to the rise of modern ideologies and identities, world hegemony, and the social technologies of dehumanization that foreshadowed the unprecedented imhumanities of the 20th century. Also offered for undergraduates as HISTORY 417R. Graduates will be held to a higher standard in terms of additional, in-depth historiographic
research, writing, and discussion.

HISTORY 5517 19Th Century European History
This upper-division course will survey significant trends in warfare, politics, economics, social relations and culture in 19th century Europe, paying particular attention to the rise of modern ideologies and identities, world hegemony, and the social technologies of dehumanization that foreshadowed the unprecedented inhumanities of the 20th century. Also offered for undergraduates as HISTORY 417R. Graduate students will be held to a higher standard in terms of additional, in-depth historiographic research, writing, and discussion.

HISTORY 5518 20Th Century European History
This upper-division course traces the history of Europe in the 20th century. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the issues of modernity and postmodernity, imperialism and decolonization, dehumanization and genocide as well as the role of ordinary people in these systems of mass destruction. Also offered for undergraduates as HISTORY 418R. Graduate students will be held to a higher standard in terms of additional, in-depth historiographic research, writing, and discussion.

HISTORY 5519 Contemporary European History: 1950-2000
This upper-division course traces the history of Europe in the period of living memory. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the rise of globalization and the condition of postmodernity, decolonization and neo-colonization, European unification and everyday life. Also offered for undergraduates as HISTORY 419R. Graduate students will be held to a higher standard in terms of additional, in-depth historiographic research, writing, and discussion.

HISTORY 5518 20Th Century European History
This upper-division course traces the history of Europe in the 20th century. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the issues of modernity and postmodernity, imperialism and decolonization, dehumanization and genocide as well as the role of ordinary people in these systems of mass destruction. Also offered for undergraduates as HISTORY 418R. Graduate students will be held to a higher standard in terms of additional, in-depth historiographic research, writing, and discussion.

HISTORY 5519 Contemporary European History: 1950-2000
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HISTORY 5525R European Criminal Justice History, 500-1900
This course will survey European crime, criminal procedure, policing and punishment between 500 and 1900. Particular attention will be given to changing methods of proof (oaths, ordeals, juries); changing type of criminal activity (banditry, vagrancy, witchcraft, professional theft) and changing penal strategies (the stocks, breaking on the wheel, the workhouse, the prison, the penitentiary). English experiences are emphasized.

HISTORY 5525R European Criminal Justice History, 500-1900
This course will survey European crime, criminal procedure, policing and punishment between 500 and 1900. Particular attention will be given to changing methods of proof (oaths, ordeals, juries); changing type of criminal activity (banditry, vagrancy, witchcraft, professional theft) and changing penal strategies (the stocks, breaking on the wheel, the workhouse, the prison, the penitentiary). English experiences are emphasized.

HISTORY 5526 Modern Latin America
This course studies social, political, economic and cultural trends in Latin America in the nineteenth and twentieth centuries. Discussion topics include nation building after Independence with an emphasis on gender and race in the creation of national identities and new forms of social stratification; integration of national economies into the world economic system; the expansion of political participation and citizenship; immigration (national and transnational) and the tensions caused by the forces of modernization and tradition. Although the purpose of the course is to provide a general background for a large and diverse region (more than 20 countries), case studies from Argentina, Mexico and Brazil will illustrate the above-mentioned themes and will provide the basis for a comparative regional perspective.

HISTORY 5526R The Scientific Revolution 1500-1700
See course description HISTORY 426R.
HISTORY 5526R The Scientific Revolution 1500-1700
See course description HISTORY 426R.

HISTORY 5527 The Darwinian Revolution, 1650-1900
See course description HISTORY 427R.

HISTORY 5527 The Darwinian Revolution, 1650-1900
See course description HISTORY 427R.

HISTORY 5528A History Of The Body
This advanced course will explore the new field of the history of the body, with particular attention to sexuality and gender. Topics will include the history of sexualities, the body and society, body disciplines, medical practices and representations of illness, beauty, and fashion, and the relationship between sexualities and nationalisms.

HISTORY 5528A History Of The Body
This advanced course will explore the new field of the history of the body, with particular attention to sexuality and gender. Topics will include the history of sexualities, the body and society, body disciplines, medical practices and representations of illness, beauty, and fashion, and the relationship between sexualities and nationalisms.

HISTORY 5528B Women & Medicine:Patients & Practitioners From Antiquity-Present
This course explores, in a selective fashion, the role of women in Western Medicine both as health care providers and patients. The subject of the history of medicine is too broad to be covered comprehensively in a semester, and so we will focus on diseases or physical conditions which were believed to be limited to women-childbirth, certain mental health conditions, reproductive health, breast cancer-as well as the increasing marginalization of women within the profession of health care providers to those branches concerned primarily with "women's problems."

HISTORY 5528B Women & Medicine:Patients & Practitioners From Antiquity-Present
This course explores, in a selective fashion, the role of women in Western Medicine both as health care providers and patients. The subject of the history of medicine is too broad to be covered comprehensively in a semester, and so we will focus on diseases or physical conditions which were believed to be limited to women-childbirth, certain mental health conditions, reproductive health, breast cancer-as well as the increasing marginalization of women within the profession of health care providers to those branches concerned primarily with "women's problems."

HISTORY 5531 Medieval England, 1066 To 1485
See course description HISTORY 431R.

HISTORY 5531 Medieval England, 1066 To 1485
See course description HISTORY 431R.

HISTORY 5532 Tudor-England, 1485-1688
This course covers the history of England from the accession of Henry VII in 1485 to the crowning of William and Mary in the Glorious Revolution. Its main emphasis is the Tudor dynasty 1485-1603 with special reference to the transformation of England into a modern state, Re-Reformation, the role of Parliament, etc. The course concludes with the major characteristics of the early Stuart period.

HISTORY 5532 Tudor-England, 1485-1688
This course covers the history of England from the accession of Henry VII in 1485 to the crowning of William and Mary in the Glorious Revolution. Its main emphasis is the Tudor dynasty 1485-1603 with special reference to the transformation of England into a modern state, Re-Reformation, the role of Parliament, etc. The course concludes with the major characteristics of the early Stuart period.

HISTORY 5533 History of Britain 1603-1832
This course analyzes the rise and fall of the Stuart dynasty and the effects of civil war, rebellion, and religious turmoil on the peoples of Britain. The domination of politics and culture by the aristocracy in the eighteenth century is examined. The rise of the Navy due to constant warfare and the exploration of the Pacific are discussed. The monarchy of George III, the loss of the American colonies, and the wars with Napoleon are examined. Finally, the Agricultural and early Industrial Revolutions are considered through an analysis of the social changes they brought in Britain and the Empire.

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American colonies, and the wars with Napoleon are examined. Finally, the Agricultural and early Industrial Revolutions are considered through an analysis of the social changes they brought in Britain and the Empire.

**HISTORY 5536 Modern German History: 1890-1990**
This course traces history of Central Europe from the fall of Bismarck to the reunification of Germany one century later. It will ask students to think critically about the relationship between state and society, elites and 'ordinary' Germans, in the various German-speaking regimes that existed over the course of this era: two empires, two interwar republics, two fascist dictatorships, and three post-fascist republics. All assigned readings will be in English; a background knowledge of European history is recommended. This course follows from HISTORY 435 HISTORY 535; the contents and assignments will be coordinated, but the former course is not a prerequisite for the latter.

**HISTORY 5536 Modern German History: 1890-1990**
This course traces history of Central Europe from the fall of Bismarck to the reunification of Germany one century later. It will ask students to think critically about the relationship between state and society, elites and 'ordinary' Germans, in the various German-speaking regimes that existed over the course of this era: two empires, two interwar republics, two fascist dictatorships, and three post-fascist republics. All assigned readings will be in English; a background knowledge of European history is recommended. This course follows from HISTORY 435 HISTORY 535; the contents and assignments will be coordinated, but the former course is not a prerequisite for the latter.

**HISTORY 5537 Nazi Germany**
See course description HISTORY 437.

**HISTORY 5537 Nazi Germany**
See course description HISTORY 437.

**HISTORY 5544 Islam & The Arabs: The Formative Period**
See course description HISTORY 444R.

**HISTORY 5544 Islam & The Arabs: The Formative Period**
See course description HISTORY 444R.

**HISTORY 5545 The Ottoman Empire In The Middle East To Wwi**
See course description HISTORY 445.

**HISTORY 5545 The Ottoman Empire In The Middle East To Wwi**
See course description HISTORY 445.

**HISTORY 5546 The Middle East From World War I To The Present**
See course description HISTORY 446R.

**HISTORY 5546 The Middle East From World War I To The Present**
See course description HISTORY 446R.

**HISTORY 5552 Latin American History through the Movies**
This course explores the national cinemas and film industries of various regions in Latin America. Students will analyze films both as artistic endeavors and as sociological documents that provide a window into the socio-historical context of the nation in question. This course will also examine the history of Latin American cinema from the beginnings of sound to present.

**HISTORY 5554 Women In Modern America**
See course description HISTORY 354R.

**HISTORY 5554 Women In Modern America**
See course description HISTORY 354R.

**HISTORY 5556 Rise Of The City In The U.S.**
See course description HISTORY 356.

**HISTORY 5556 Rise Of The City In The U.S.**
See course description HISTORY 356.
HISTORY 5556R Kansas City: History Of A Regional Metropolis  
See course description HISTORY 356R.

HISTORY 5556R Kansas City: History Of A Regional Metropolis  
See course description HISTORY 356R.

HISTORY 5557 The American West  
See course description for HISTORY 357.

HISTORY 5557 The American West  
See course description for HISTORY 357.

HISTORY 5558R History Of The American South  
See course description for HISTORY 358R.

HISTORY 5558R History Of The American South  
See course description for HISTORY 358R.

HISTORY 5559R The Confederacy And The Myth Of The Lost Cause  
See course description for HISTORY 359R.

HISTORY 5559R The Confederacy And The Myth Of The Lost Cause  
See course description for HISTORY 359R.

HISTORY 5561R American Foreign Relations  
See course description for HISTORY 361.

HISTORY 5561R American Foreign Relations  
See course description for HISTORY 361.

HISTORY 5562J Japanese Civilization  
A survey of Japanese civilization and cultural history from the prehistorical period to the present. Emphasis on the interplay between religion, the arts, politics, and social structure.

HISTORY 5562J Japanese Civilization  
A survey of Japanese civilization and cultural history from the prehistorical period to the present. Emphasis on the interplay between religion, the arts, politics, and social structure.

HISTORY 5563R Military History Of The U.S.  
See course description for HISTORY 363.

HISTORY 5563R Military History Of The U.S.  
See course description for HISTORY 363.

HISTORY 5566R American Economic History Since 1865  
The course deals with the emergence of Industrial America since 1865. It will cover the rise to dominance of the large modern corporation, with the problem of economic and social instability and stability, with the rise of trade associations, cartels, and government regulation in an unstable economy, and with the evolution of American economic policy and national economic planning. This course is the same as ECON 540r.

HISTORY 5566R American Economic History Since 1865  
The course deals with the emergence of Industrial America since 1865. It will cover the rise to dominance of the large modern corporation, with the problem of economic and social instability and stability, with the rise of trade associations, cartels, and government regulation in an unstable economy, and with the evolution of American economic policy and national economic planning. This course is the same as ECON 540r.

HISTORY 5566RR American Labor History  
This course examines the history of work and the working class in the U.S. from 1750 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers' relationships with other social groups, and the role played by gender, race, and ethnicity in uniting or dividing the working class. Offered: On demand.
HISTORY 5566RR American Labor History
This course examines the history of work and the working class in the U.S. from 1750 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers’ relationships with other social groups, and the role played by gender, race, and ethnicity in uniting or dividing the working class. Offered: On demand.

HISTORY 5570 Introduction To Material Culture
See course description for HISTORY 370.

HISTORY 5570 Introduction To Material Culture
See course description for HISTORY 370.

HISTORY 5570 Ancient Egypt
See course description for HISTORY 470.

HISTORY 5570 Ancient Egypt
See course description for HISTORY 470.

HISTORY 5571 Ancient Greece
See course description for HISTORY 471.

HISTORY 5571 Ancient Greece
See course description for HISTORY 471.

HISTORY 5572 Ancient Rome
See course description for HISTORY 472.

HISTORY 5572 Ancient Rome
See course description for HISTORY 472.

HISTORY 5573 History Of Astronomy
See course description for HISTORY 473.

HISTORY 5573 History Of Astronomy
See course description for HISTORY 473.

HISTORY 5575 Ancient Israel
Judaism has had a tremendous impact on our civilization and yet most Americans are only dimly aware of its origins and development. This course will trace the roots of the Jewish religion in its historical context from its beginning through the formation of rabbinic culture. The rise of Christianity will be examined in its original Judaic context, and recent discoveries, particularly those pertaining to the Dead Sea Scrolls, will be interpreted. Offered: Every Winter; or Every other Winter or Whenever HISTORY 475 is offered.

HISTORY 5575 Ancient Israel
Judaism has had a tremendous impact on our civilization and yet most Americans are only dimly aware of its origins and development. This course will trace the roots of the Jewish religion in its historical context from its beginning through the formation of rabbinic culture. The rise of Christianity will be examined in its original Judaic context, and recent discoveries, particularly those pertaining to the Dead Sea Scrolls, will be interpreted. Offered: Every Winter; or Every other Winter or Whenever HISTORY 475 is offered.

HISTORY 5575R The History Of Ancient Israel
See course description for HISTORY 475.

HISTORY 5575R The History Of Ancient Israel
See course description for HISTORY 475.

HISTORY 5576R Medieval Jewish History
See course description for HISTORY 476.

HISTORY 5576R Medieval Jewish History
See course description for HISTORY 476.
HISTORY 5577R Modern Jewish History
See course description for HISTORY 477.

HISTORY 5577R Modern Jewish History
See course description for HISTORY 477.

HISTORY 5578R The Holocaust And The State Of Israel
See course description for HISTORY 478.

HISTORY 5578R The Holocaust And The State Of Israel
See course description for HISTORY 478.

HISTORY 5580 The History Of The American South I
A study of the political, intellectual, cultural, economic, and social development of the American South up to and including the Civil War. Special topics discussed will e the plantation system, slavery, abolition, secession, the Confederacy and the interaction of the region with the nation.

HISTORY 5581 Research Methodologies
An introduction to a variety of research tools and techniques including such topics as evidence, critical method, verification, bibliography, book review, computers, statistics, and archival methods.

HISTORY 5581 Research Methodologies
An introduction to a variety of research tools and techniques including such topics as evidence, critical method, verification, bibliography, book review, computers, statistics, and archival methods.

HISTORY 5581GR How To - History I
This foundational course in the doing of history will use the "great books" of historical scholarship to introduce graduate students to historical questions, methods, theories, and rhetorical strategies. The goal of the course is for the student to learn how to engage in historical criticism and formulate historical questions for themselves. This required course must be taken in the first year of graduate study in history.

HISTORY 5582 Colloquium In American History I
These courses are designed to acquaint the graduate student with the writings and theories of major American historians. Faculty lectures are combined with student bibliographical essays and the reading of important historical works in order to prepare the student for the final examination taken upon completion of M.A. course work. Books read in the course compose a large proportion of the departmental reading list. M.A. candidates in American history are required to take both courses. History 582 covers American history to 1865; HISTORY 583 covers the period since that date.

HISTORY 5582 Colloquium In American History I
These courses are designed to acquaint the graduate student with the writings and theories of major American historians. Faculty lectures are combined with student bibliographical essays and the reading of important historical works in order to prepare the student for the final examination taken upon completion of M.A. course work. Books read in the course compose a large proportion of the departmental reading list. M.A. candidates in American history are required to take both courses. History 582 covers American history to 1865; HISTORY 583 covers the period since that date.

HISTORY 5582GR How To - History II
This foundational course in the doing of history will introduce graduate students to professional obligations and research methodologies of academic historians. Pragmatic in focus, it will prepare students for all stages of research and teaching through all aspects of an historical career from graduate school to full professorship or other directions. This required course must be taken in the first year of graduate study in history and it fulfills the SGS recommendation for ethical instruction. Prerequisites: History 5581GR.

HISTORY 5583 Colloquium In American History II
These courses are designed to acquaint the graduate student with the writings and theories of major American historians. Faculty lectures are combined with student bibliographical essays and the reading of important historical works in order prepare the student for the final examination taken upon completion of M.A. course work. Books read in the course compose a large proportion of the departmental reading list. M.A. candidates in American History are required to take both courses. History 582 covers American History to 1865; HISTORY 583 covers the period since that date.

HISTORY 5583 Colloquium In American History II
These courses are designed to acquaint the graduate student with the writings and theories of major American historians. Faculty lectures are combined with student bibliographical essays and the reading of important historical works in order prepare the
student for the final examination taken upon completion of M.A. course work. Books read in the course compose a large proportion of the departmental reading list. M.A. candidates in American History are required to take both courses. History 582 covers American History to 1865; HISTORY 583 covers the period since that date.

**HISTORY 5583GR Medieval Methods & Paleography**

This course examines the methodology and historiography of Medieval and Renaissance Studies. Through an introduction to paleography, the study of handwritings, it prepares students for advanced work in these fields. Using an interdisciplinary approach, this course examines the historical and cultural settings for texts, their physical form and production, as well as the tradition of textual transmission in the medieval and early modern world. In addition to gaining familiarity with many different types of primary sources, such as literary, artistic, legal, and notarial sources, students will be exposed to methods for archival work in various European nations. Prerequisite: Permission of instructor

**HISTORY 5584R Colloquium In European History I**

The European History Colloquium I will examine some of the crucial problems or watersheds in European history from antiquity through the Reformation. Course requirements include weekly discussions on specific topics and a research paper or project due by the end of the semester.

**HISTORY 5584R Colloquium In European History I**

The European History Colloquium I will examine some of the crucial problems or watersheds in European history from antiquity through the Reformation. Course requirements include weekly discussions on specific topics and a research paper or project due by the end of the semester.

**HISTORY 5585 Colloquium In European History II**

The European History Colloquium II will examine some of the crucial problems or watersheds in European history from the Reformation through the 20th century. The course seeks to provide an in-depth study of specific topics and of the associated bibliography.

**HISTORY 5585 Colloquium In European History II**

The European History Colloquium II will examine some of the crucial problems or watersheds in European history from the Reformation through the 20th century. The course seeks to provide an in-depth study of specific topics and of the associated bibliography.

**HISTORY 5585GR Colloquium In U.S. History**

Students read broadly in the historiography of a particular historical problem, place, period, or specialization in U.S. History in order to master the relevant literature and hone their skills of historical criticism. Prerequisites: History 5581GR or concurrent enrollment in History 5581GR.

**HISTORY 5586GR Colloquium In World History**

Students read broadly in the historiography of a particular historical problem, place, period, or specialization in world history in order to master the relevant literature and hone their skills of historical criticism. Prerequisite: Concurrent enrollment / successful completion of 5581GR

**HISTORY 5587R Research Seminar**

Students in this course will produce a major research paper under the direction of the instructor: a self-contained thesis chapter, an article for publication or the equivalent.

**HISTORY 5587R Research Seminar**

Students in this course will produce a major research paper under the direction of the instructor: a self-contained thesis chapter, an article for publication or the equivalent.

**HISTORY 5587RA Research Seminar**

**HISTORY 5587RA Research Seminar**

**HISTORY 5587RB Research Seminar**

**HISTORY 5587RB Research Seminar**
HISTORY 5590 History Of The American South II
A study of the political, intellectual, cultural, economic, and social development of the American South since the Civil War. Topics discussed will be the molding of a "New South,": twentieth century internal developments and the interaction of the region with the nation.

HISTORY 5591 Archival Methods

HISTORY 5591 Archival Methods

HISTORY 5592 Archival Internship

HISTORY 5592 Archival Internship

HISTORY 5593 Museum Studies
This course is designed to acquaint students with specific careers in museums and historical agencies; to introduce students to the wide range of operating issues facing those working in the museum profession on a day-to-day basis; and to familiarize students with the organizations, reference works and resources available to develop the skills and training required for those who choose to make this their profession.

HISTORY 5593 Museum Studies
This course is designed to acquaint students with specific careers in museums and historical agencies; to introduce students to the wide range of operating issues facing those working in the museum profession on a day-to-day basis; and to familiarize students with the organizations, reference works and resources available to develop the skills and training required for those who choose to make this their profession.

HISTORY 5597 Non-Thesis Research/Reading
Individual direction of student reading or research by selected, consenting faculty. This course can be taken only when faculty supervision is unavailable in colloquia or seminars.

HISTORY 5597 Non-Thesis Research/Reading
Individual direction of student reading or research by selected, consenting faculty. This course can be taken only when faculty supervision is unavailable in colloquia or seminars.

HISTORY 5599R Thesis
A contribution to knowledge based upon extensive research and reflective of careful analysis. Before writing a thesis, the student must clear the topic and research design with the Supervisory committee.

HISTORY 5599R Thesis
A contribution to knowledge based upon extensive research and reflective of careful analysis. Before writing a thesis, the student must clear the topic and research design with the Supervisory committee.

HISTORY 5680 Doctoral Colloquium
This course will examine the writings and theories of major historians in a particular field of history. The authors, works and intellectual currents which form the basis of the colloquium will vary from semester to semester, depending upon the professor's expertise and design for the course.

HISTORY 5680 Doctoral Colloquium
This course will examine the writings and theories of major historians in a particular field of history. The authors, works and intellectual currents which form the basis of the colloquium will vary from semester to semester, depending upon the professor's expertise and design for the course.

HISTORY 5687 Doctoral Research Seminar
Students in this course will produce a major research paper under the direction of the instructor. This shall consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

HISTORY 5687 Doctoral Research Seminar
Students in this course will produce a major research paper under the direction of the instructor. This shall consist of a self-
HISTORY 5687RA Doctoral Research Seminar
Students in this course will produce a major research paper under the direction of the instructor. This shall consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

HISTORY 5687RA Doctoral Research Seminar
Students in this course will produce a major research paper under the direction of the instructor. This shall consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

HISTORY 5687RB Doctoral Research Seminar
Students in this course will produce a major research paper under the direction of the instructor. This shall consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

HISTORY 5687RB Doctoral Research Seminar
Students in this course will produce a major research paper under the direction of the instructor. This shall consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

HISTORY 5697 Doctoral-Level Independent Reading
Individual reading under the supervision of members of the History Doctoral Faculty in preparation for the Comprehensive Examination for the Ph.D.

HISTORY 5697 Doctoral-Level Independent Reading
Individual reading under the supervision of members of the History Doctoral Faculty in preparation for the Comprehensive Examination for the Ph.D.

HISTORY 5699R Dissertation
Course credits in dissertation.

HISTORY 5699R Dissertation
Course credits in dissertation.

HISTORY 5899 Required Graduate Enrollment

HISTORY 5899 Required Graduate Enrollment

HISTORY 600PS Special Topics Umkc

HISTORY 699 Research And Dissertation

Mathematics (MATH)
MATH 500PS Special Topics Umkc

MATH 5509 General Algebra I
Groups, rings, modules, homology, fields and Galois theory, valuations, matrices, and multilinear algebra. Prerequisite: MATH 410 and Math 420. Note: Continued in MATH 5519.

MATH 5510 Complex Variables I
The group of linear fractional transformations, complex integration, Cauchy's theorem, the maximum modulus theorem, analytic continuation, Riemann surfaces. Note: Continued in MATH 5520. Prerequisite: MATH 402 and MATH 407, or consent of instructor.

MATH 5510 Complex Variables I
The group of linear fractional transformations, complex integration, Cauchy's theorem, the maximum modulus theorem, analytic continuation, Riemann surfaces. Note: Continued in MATH 5520. Prerequisite: MATH 402 and MATH 407, or consent of instructor.
MATH 5513 Real Variables I
Theory of measure with applications to analysis. Riemann and Lebesgue integration. Note: Continued in MATH 5523.
Prerequisite: Math 402 and Math 412, or consent of instructor.

MATH 5514 Mathematics For Secondary Teachers: Algebra And Analysis
Designed for secondary-school teachers. Examine high school mathematics from a higher point of view. Real and complex numbers, functions, algebraic structures of equations, integers and polynomials, number system structures; analyses of alternate approaches, extensions and applications of mathematical ideas, discussion of historical contexts and connections between ideas that may have been studied separately in different courses, relationships of ideas studied in secondary-school to those students may encounter in later study. When taken for graduate credit as Math 5514, an extra project is required. Prerequisites: Math 300 and Math 201

MATH 5517 Matrix Theory I
Unitary matrices, normal matrices, Jordan canonical form, nonnegative matrices and their applications, the symmetric eigenvalue problem. Prerequisites: MATH 420.

MATH 5519 General Algebra II
Continuation of MATH 5509.

MATH 5520 Complex Variables II
Continuation of MATH 5510.

MATH 5521 Differential Equations
This course offers an introduction to the qualitative theory and applications of ordinary differential equations (ODE). The presentation of the course will be a blend of fundamental theory and examples. The basic results will be proved rigorously and more advanced results will be only illustrated by examples that demonstrate when and how they may be applied. Prerequisites: MATH 345, MATH 412 and MATH 420, or consent of the instructor.

MATH 5523 Real Variables II
Continuation of MATH 5513.

MATH 5524 Mathematics For Secondary Teachers: Geometry
Designed for secondary-school teachers. Examine high school mathematics from a higher point of view. Congruence, distance and similarity, trigonometry, area and volume, axiomatics and Euclidean geometry; analyses of alternate approaches, extensions,
and applications of mathematical ideas, discussion of historical contexts and connections between ideas that may have been studied separately in different courses, relationships of ideas studied in secondary-school to those students may encounter in later study. When taken for graduate credit as Math 5524, an extra project is required. Prerequisites: Math 300 and Math 301.

MATH 5524 Mathematics For Secondary Teachers: Geometry
Designed for secondary-school teachers. Examine high school mathematics from a higher point of view. Congruence, distance and similarity, trigonometry, area and volume, axiomatics and Euclidean geometry; analyses of alternate approaches, extensions, and applications of mathematical ideas, discussion of historical contexts and connections between ideas that may have been studied separately in different courses, relationships of ideas studied in secondary-school to those students may encounter in later study. When taken for graduate credit as Math 5524, an extra project is required. Prerequisites: Math 300 and Math 301.

MATH 5527 Matrix Theory II
Continuation of Math 517.

MATH 5532 Advanced Numerical Analysis I
Error Analysis, Solving Systems of Linear Equations, Solutions of Nonlinear Equations, the Least-Squares Problems, and Approximating functions. Prerequisite: MATH 402 and MATH 420 or consent of instructor. Note: Continued in MATH 5542.

MATH 5532 Advanced Numerical Analysis I
Error Analysis, Solving Systems of Linear Equations, Solutions of Nonlinear Equations, the Least-Squares Problems, and Approximating functions. Prerequisite: MATH 402 and MATH 420 or consent of instructor. Note: Continued in MATH 5542.

MATH 5542 Advanced Numerical Analysis II
Eigenvalues and Eigenvectors, Linear Programming, Optimization, Numerical Differentiation and Integration, Numerical Solution of Ordinary and Partial Differential Equations. Prerequisite: MATH 532 or consent of instructor. Note: Continuation of MATH 5532.

MATH 5542 Advanced Numerical Analysis II
Eigenvalues and Eigenvectors, Linear Programming, Optimization, Numerical Differentiation and Integration, Numerical Solution of Ordinary and Partial Differential Equations. Prerequisite: MATH 532 or consent of instructor. Note: Continuation of MATH 5532.

MATH 5545 Mathematical Methods In Science And Engineering
This course offers applied linear algebra and Fourier analysis which are indispensable tools in science and engineering. It is designed for beginning graduate students with moderate background in linear algebra and real analysis. Many of the results that are presented in the course will be proved rigorously from mathematical point of view. Prerequisites: Math 402, Math 406, and Math 420, or consent of instructor.

MATH 5545 Mathematical Methods In Science And Engineering
This course offers applied linear algebra and Fourier analysis which are indispensable tools in science and engineering. It is designed for beginning graduate students with moderate background in linear algebra and real analysis. Many of the results that are presented in the course will be proved rigorously from mathematical point of view. Prerequisites: Math 402 and Math 420

MATH 5557 Functional Analysis
Hilbert spaces, linear operators, compact operators, Banach spaces, the Hahn-Banach theorem, the open mapping and closed graph theorems, the principle of uniform boundedness, locally convex spaces. Prerequisites: MATH 402 and MATH 420

MATH 5557 Functional Analysis
Hilbert spaces, linear operators, compact operators, Banach spaces, the Hahn-Banach theorem, the open mapping and closed graph theorems, the principle of uniform boundedness, locally convex spaces. Prerequisites: MATH 402 and MATH 420

MATH 5590 Special Topics
Selected topics in various fields of mathematics. May be repeated for credit when the topic varies. Prerequisite: Consent of instructor.

MATH 5590 Special Topics
Selected topics in various fields of mathematics. May be repeated for credit when the topic varies. Prerequisite: Consent of instructor.

MATH 5699 Research And Thesis
Doctoral dissertation.
MATH 5699 Research And Thesis
Doctoral dissertation.

MATH 5899 Required Graduate Enrollment

MATH 5899 Required Graduate Enrollment

Philosophy (PHILOS)
PHILOS 500PS Special Topics Umkc

PHILOS 510PS Special Topics Umkc

PHILOS 5521 Managerial And Administrative Decision Making And Ethical Values
Methods of problem definition and decision making in ethics are presented with the goal of providing the student with a matrix for case review. A series of cases is offered that serve to integrate approaches to ethical reflection with management and administrative decision making. Cases are chosen on the basis of topical, curricular and conceptual relevance.

PHILOS 5521 Managerial And Administrative Decision Making And Ethical Values
Methods of problem definition and decision making in ethics are presented with the goal of providing the student with a matrix for case review. A series of cases is offered that serve to integrate approaches to ethical reflection with management and administrative decision making. Cases are chosen on the basis of topical, curricular and conceptual relevance.

PHILOS 5540 Seminar On Philosophy And Law
An examination from a philosophical perspective of the historical and conceptual relationships present in the evolution, development and analysis of law. Among the systems of analysis examined will be natural law theory, legal positivism and legal realism. Ordinarily the seminar will focus on a specific area of controversy in the law.

PHILOS 5540 Seminar On Philosophy And Law
An examination from a philosophical perspective of the historical and conceptual relationships present in the evolution, development and analysis of law. Among the systems of analysis examined will be natural law theory, legal positivism and legal realism. Ordinarily the seminar will focus on a specific area of controversy in the law.

PHILOS 5546 Ethics And Government
An examination of ethical issues related to government, with the primary focus on national and local governmental bodies in the United States. Ethics in the executive, legislative and judicial branches are examined. Ethical standards for elected officials and appointed public servants are reviewed. Attempts to """"legislate morality"""" are considered. The course includes a historical review of ethics and government and an analysis of the legal implications of legislation regarding ethics in the executive branch.

PHILOS 5546 Ethics And Government
An examination of ethical issues related to government, with the primary focus on national and local governmental bodies in the United States. Ethics in the executive, legislative and judicial branches are examined. Ethical standards for elected officials and appointed public servants are reviewed. Attempts to """"legislate morality"""" are considered. The course includes a historical review of ethics and government and an analysis of the legal implications of legislation regarding ethics in the executive branch.

PHILOS 5620 Descartes To Hume

PHILOS 5620 Descartes To Hume

PHILOS 5625 Aesthetics

PHILOS 5625 Aesthetics
PHILOS 5638 Philosophy Of Biology

PHILOS 5638 Philosophy Of Biology

PHILOS 5640 Philosophy Of Law

PHILOS 5640 Philosophy Of Law

PHILOS 5690 Research In Selected Fields: Graduate Studies
Intensive research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies.

PHILOS 5690 Research In Selected Fields: Graduate Studies
Intensive research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies.

Physics (PHYSICS)
PHYSICS 5500 Methods Of Mathematical Physics I
Intended to provide the student with the advanced mathematical techniques needed for beginning graduate studies in the physical sciences. Content includes real variables, infinite series, complex analysis, linear algebra and partial differential equations. Offered: Fall.

PHYSICS 5500 Methods Of Mathematical Physics I
Intended to provide the student with the advanced mathematical techniques needed for beginning graduate studies in the physical sciences. Content includes real variables, infinite series, complex analysis, linear algebra and partial differential equations. Offered: Fall.

PHYSICS 5501 Methods Of Mathematical Physics II
A continuation of Physics 500 which includes Sturm-Liouville operators, special functions, Fourier transforms, distributions and Green functions, Laplace transforms, linear groups and tensor analysis. Offered: Winter.

PHYSICS 5501 Methods Of Mathematical Physics II
A continuation of Physics 500 which includes Sturm-Liouville operators, special functions, Fourier transforms, distributions and Green functions, Laplace transforms, linear groups and tensor analysis. Offered: Winter.

PHYSICS 5505 Survey Of Recent Development In Physics
Specifically designed to help high school and junior college science teachers keep pace with current developments in various subdivisions of physics and their impact on society and technology. (Not applicable for graduate degree in Physics). Prerequisite: Baccalaureate degree and one year science teaching experience. Offered: On Demand.

PHYSICS 5505 Survey Of Recent Development In Physics
Specifically designed to help high school and junior college science teachers keep pace with current developments in various subdivisions of physics and their impact on society and technology. (Not applicable for graduate degree in Physics). Prerequisite: Baccalaureate degree and one year science teaching experience. Offered: On Demand.

PHYSICS 5510 Theoretical Mechanics I
A review of undergraduate mechanics precedes the study of generalized classical mechanics in this course. Topics include variational principles, Lagrangian and Hamilton methods, conservation laws and Hamilton-Jacobi theory. Offered: Fall.

PHYSICS 5510 Theoretical Mechanics I
A review of undergraduate mechanics precedes the study of generalized classical mechanics in this course. Topics include variational principles, Lagrangian and Hamilton methods, conservation laws and Hamilton-Jacobi theory. Offered: Fall.

PHYSICS 5511 Theoretical Mechanics II
A continuation of PHYSICS 510, this course covers topics such as normal coordinates, small oscillations, continuum mechanics and special/general relativity. Offered: On Demand.
PHYSICS 5511 Theoretical Mechanics II
A continuation of PHYSICS 510, this course covers topics such as normal coordinates, small oscillations, continuum mechanics and special/general relativity. Offered: On Demand.

PHYSICS 5520 Electromagnetic Theory And Applications I
Electrostatics, magnetostatics and various approaches in solving boundary value problems of electromagnetism, Green's functions, conformal transformations and polynomial expansions, Maxwell's equations and waves. Offered: Fall Even years

PHYSICS 5520 Electromagnetic Theory And Applications I
Electrostatics, magnetostatics and various approaches in solving boundary value problems of electromagnetism, Green's functions, conformal transformations and polynomial expansions, Maxwell's equations and waves. Offered: Fall Even years

PHYSICS 5521 Electromagnetic Theory And Applications II
Waveguides, fiberoptics, radiation systems and antenna for wireless communications, scattering and diffraction of electromagnetic waves, multipole fields, special relativity and relativistic particle dynamics and radiation. Offered: Spring Odd years

PHYSICS 5521 Electromagnetic Theory And Applications II
Waveguides, fiberoptics, radiation systems and antenna for wireless communications, scattering and diffraction of electromagnetic waves, multipole fields, special relativity and relativistic particle dynamics and radiation. Offered: Spring Odd years

PHYSICS 5530 Quantum Mechanics I
Review of elementary methods, formal preliminaries, axioms, commuting operators, angular momentum, static perturbation theory, Wigner-Eckart theorem. Offered: Fall Odd years

PHYSICS 5530 Quantum Mechanics I
Review of elementary methods, formal preliminaries, axioms, commuting operators, angular momentum, static perturbation theory, Wigner-Eckart theorem. Offered: Fall Odd years

PHYSICS 5531 Quantum Mechanics II
Time dependent perturbation theory, scattering, applications to atoms, molecules and nuclei, reactions, relativistic methods. Offered: Spring-Even years.

PHYSICS 5531 Quantum Mechanics II
Time dependent perturbation theory, scattering, applications to atoms, molecules and nuclei, reactions, relativistic methods. Offered: Spring-Even years.

PHYSICS 5535 Optical Properties Of Matter
Maxwell's equations and the dielectric function, absorption and dispersion, free-electron metals, interband transitions, dispersion relations and sum rules, self-consistent field approximation, current-current correlations and the fluctuation-dissipation theorem, plasmons and characteristic energy loss. Prerequisites: PHYSICS 450, PHYSICS 460, PHYSICS 461, PHYSICS 471, PHYSICS 472, PHYSICS 500. Offered: Spring Odd years.

PHYSICS 5535 Optical Properties Of Matter
Maxwell's equations and the dielectric function, absorption and dispersion, free-electron metals, interband transitions, dispersion relations and sum rules, self-consistent field approximation, current-current correlations and the fluctuation-dissipation theorem, plasmons and characteristic energy loss. Prerequisites: PHYSICS 450, PHYSICS 460, PHYSICS 461, PHYSICS 471, PHYSICS 472, PHYSICS 500. Offered: Spring Odd years.

PHYSICS 5537 Particle Physics
Essential aspects of modern particle physics are examined in a historical context, and also in terms of the standard model describing concisely the fundamental interactions among particles. Conservation laws are discussed, and recent developments such as String Theory are considered. Physics 5537 is also offered as Physics 437. Prerequisites for undergraduates: Physics 240, Physics 250, and Physics 350 or Physics 472.

PHYSICS 5540 Statistical Physics I
Statistical mechanics as a basis for thermodynamics; classical distribution functions; quantum statistical mechanics, kinetic theory, transport phenomena; application to systems of interacting particles. Prerequisites: PHYSICS 410, PHYSICS 471, PHYSICS 472. Offered: Fall Odd Years.
PHYSICS 5540 Statistical Physics I
Statistical mechanics as a basis for thermodynamics; classical distribution functions; quantum statistical mechanics, kinetic theory, transport phenomena; application to systems of interacting particles. Prerequisites: PHYSICS 410, PHYSICS 471, PHYSICS 472. Offered: Fall Odd Years.

PHYSICS 5541 Statistical Physics II
Special topics in advanced statistical physics including: second quantization, modern many body theory, interacting Fermi and Bose systems, superfluidity and superconductivity, renormalization group and computer simulation techniques. Prerequisite: PHYSICS 540. Offered: On Demand.

PHYSICS 5541 Statistical Physics II
Special topics in advanced statistical physics including: second quantization, modern many body theory, interacting Fermi and Bose systems, superfluidity and superconductivity, renormalization group and computer simulation techniques. Prerequisite: PHYSICS 540. Offered: On Demand.

PHYSICS 5550 Atomic And Molecular Structure
Experimental results and theoretical models by quantum mechanics. Special emphasis on the interaction between radiation and matter. Offered: On Demand.

PHYSICS 5550 Atomic And Molecular Structure
Experimental results and theoretical models by quantum mechanics. Special emphasis on the interaction between radiation and matter. Offered: On Demand.

PHYSICS 5553 Practical Astronomy
A practical overview of the basic methods of observational astronomy research, including the principles of telescopes, detectors and measurement theory, as well as hands-on experience with data reduction and analysis. This course is open to graduate students from all majors. Prerequisite: consent of the instructor

PHYSICS 5555 Stellar Astrophysics
A mathematical and conceptual overview of the observed properties of stars and the fundamental astrophysics of radiative transfer, hydrostatic equilibrium, atomic processes and thermonuclear energy production that govern their structure, atmospheres and remnants. Prerequisites: Consent of instructor.

PHYSICS 5555 Stellar Astrophysics
A mathematical and conceptual overview of the observed properties of stars and the fundamental astrophysics of radiative transfer, hydrostatic equilibrium, atomic processes and thermonuclear energy production that govern their structure, atmospheres and remnants. Prerequisites: Consent of instructor.

PHYSICS 5555 Stellar Astrophysics
A mathematical and conceptual overview of the observed properties of stars and the fundamental astrophysics of radiative transfer, hydrostatic equilibrium, atomic processes and thermonuclear energy production that govern their structure, atmospheres and remnants. Prerequisites: Consent of instructor.

PHYSICS 5556 Galaxies
A mathematical and conceptual overview of the observed properties and astrophysics of galaxies highlighting star formation and evolution, the interstellar medium, the Milky Way, galaxy populations and demographics, active galactic nuclei, and galaxy formation and evolution. Prerequisite: consent of instructor

PHYSICS 5560 Nuclear Physics
Fundamental properties of the atomic nucleus discussed in terms of experimental results and theoretical models. Quantum and statistical mechanics are used where appropriate. Offered: On Demand.

PHYSICS 5560 Nuclear Physics
Fundamental properties of the atomic nucleus discussed in terms of experimental results and theoretical models. Quantum and statistical mechanics are used where appropriate. Offered: On Demand.

PHYSICS 5565 Cosmology
This course provides a foundation in both physical and observational cosmology. Students will acquire both a mathematical and conceptual understanding of the formation and dynamics of the Universe. Prerequisite: consent of the instructor

PHYSICS 5570 Quantum Theory Of Solids I
Lattice dynamics and thermal conductivity. Neutron scattering. Symmetry principles in crystals and consequences. Point group,

**PHYSICS 5570 Quantum Theory Of Solids I**

**PHYSICS 5571 Quantum Theory Of Solids II**
Topics will include crystal imperfections, impurities and defects, optical properties of metals and semiconductors, electron-lattice interaction and transport theory, superconductivity and theory of disordered systems. Offered: On Demand.

**PHYSICS 5571 Quantum Theory Of Solids II**
Topics will include crystal imperfections, impurities and defects, optical properties of metals and semiconductors, electron-lattice interaction and transport theory, superconductivity and theory of disordered systems. Offered: On Demand.

**PHYSICS 5580 Physics Seminar**
Contemporary publications and research. Offered: Fall and Spring

**PHYSICS 5580 Physics Seminar**
Contemporary publications and research. Offered: Fall and Spring

**PHYSICS 5585 Physics of Electronics**
An introduction to the solid state physics of basic electronic components and their operation through both theory and practical lab work.

**PHYSICS 5590 Topics In Physics**
Contemporary publications and research.

**PHYSICS 5590 Topics In Physics**
Contemporary publications and research.

**PHYSICS 5590A Topics In Physics**
Contemporary publications and research.

**PHYSICS 5590A Topics In Physics**
Contemporary publications and research.

**PHYSICS 5590B Special Topics**

**PHYSICS 5590R Topics in Physics**
Contemporary publications and research.

**PHYSICS 5595L Computer Interfacing Laboratory**
An introduction to computer interfacing through the use of serial and parallel ports and digital-to-analog and analog-to-digital converters. The course also introduces digital filtering techniques, data analysis techniques, and graphical presentation of data. The programming techniques are taught using high level programming languages currently used in research and development labs. Offered: Fall Even Years.

**PHYSICS 5595L Computer Interfacing Laboratory**
An introduction to computer interfacing through the use of serial and parallel ports and digital-to-analog and analog-to-digital converters. The course also introduces digital filtering techniques, data analysis techniques, and graphical presentation of data. The programming techniques are taught using high level programming languages currently used in research and development labs. Offered: Fall Even Years.

**PHYSICS 5599 Research And Thesis**
Research for thesis in partial fulfillment of the master's degree in physics.

**PHYSICS 5599 Research And Thesis**
Research for thesis in partial fulfillment of the master's degree in physics.
PHYSICS 5630 Advanced Quantum Theory
Scattering theory and reactions, relativistic quantum mechanics and quantum field theory, many-body problems and Green functions. Prerequisites: PHYSICS 530-PHYSICS 531 or consent of instructor. Offered: Alternate Years Fall.

PHYSICS 5630 Advanced Quantum Theory
Scattering theory and reactions, relativistic quantum mechanics and quantum field theory, many-body problems and Green functions. Prerequisites: PHYSICS 530-PHYSICS 531 or consent of instructor. Offered: Alternate Years Fall.

PHYSICS 5680 Research Seminar
Seminars on current research topics of research programs in the department and those of external distinguished scientists. (Must be taken by Physics Ph.D. students). Offered: Fall and Spring.

PHYSICS 5680 Research Seminar
Seminars on current research topics of research programs in the department and those of external distinguished scientists. (Must be taken by Physics Ph.D. students). Offered: Fall and Spring.

PHYSICS 5690 Special Research Topics
A lecture course presenting advanced research-level topics. Prerequisite: Ph.D. candidacy or consent of instructor. Offered: On Demand. This course is intended to allow faculty and visiting scholars to offer special courses in selected research areas.

PHYSICS 5690 Special Research Topics
A lecture course presenting advanced research-level topics. Prerequisite: Ph.D. candidacy or consent of instructor. Offered: On Demand. This course is intended to allow faculty and visiting scholars to offer special courses in selected research areas.

PHYSICS 5699 Research And Dissertation
Research for dissertation in partial fulfillment of the Ph.D. degree requirements in physics.

PHYSICS 5699 Research And Dissertation
Research for dissertation in partial fulfillment of the Ph.D. degree requirements in physics.

PHYSICS 5899 Required Graduate Enrollment

PHYSICS 5899 Required Graduate Enrollment

Political Science (POL-SCI)
POL-SCI 5501 Seminar in American Government
A seminar involving intense examination of the foundations, development, and structure of American national government through study of a broad range of classic materials and current research findings; course will prepare a political science graduate student to teach an introductory college course in American government. Prerequisites: Graduate Standing - Consent Required.

POL-SCI 5505 Scope And Methods Of Political Science
This seminar surveys the various descriptive and quantitative approaches to the study of politics, government and public policy. It covers the methods used in various sub-disciplines and the models employed in political analysis.

POL-SCI 5505 Scope And Methods Of Political Science
This seminar surveys the various descriptive and quantitative approaches to the study of politics, government and public policy. It covers the methods used in various sub-disciplines and the models employed in political analysis.

POL-SCI 5506 Research Design and Analysis
This course focuses on methods of data gathering, management, and analysis used in political science research. Students gain an understanding of different types of data including surveys, experiments, and archival records. The curriculum will also include ways that these data are managed and analyzed, and how the results are presented in a useful manner. Offered: on demand

POL-SCI 5513 Comparative Politics: Asia, Africa, And Latin America
A comparison of politics in selected countries from one or more of these regions, with an emphasis on how and why processes differ and change.

POL-SCI 5513 Comparative Politics: Asia, Africa, And Latin America
A comparison of politics in selected countries from one or more of these regions, with an emphasis on how and why processes
differ and change.

**POL-SCI 5521 Judicial Politics**
This course addresses broad trends of current research in the area of the judicial process based on empirical studies and the various methodological tools currently used by researchers. Case studies may be used to illustrate in depth the institutional aspects of the judicial process. Biographies may also be used to emphasize the personal and environmental factors which affect judicial decision making.

**POL-SCI 5521 Judicial Politics**
This course addresses broad trends of current research in the area of the judicial process based on empirical studies and the various methodological tools currently used by researchers. Case studies may be used to illustrate in depth the institutional aspects of the judicial process. Biographies may also be used to emphasize the personal and environmental factors which affect judicial decision making.

**POL-SCI 5522 Seminar In The Presidency**
Critical examination of the American presidency, with in-depth research into selected themes and presidents. Prerequisites: POL-SCI 406 or permission.

**POL-SCI 5522 Seminar In The Presidency**
Critical examination of the American presidency, with in-depth research into selected themes and presidents. Prerequisites: POL-SCI 406 or permission.

**POL-SCI 5524 Urban Politics**
A seminar on politics and government in urban areas with special attention to community leadership, power structures, interest group and party activity, political behavior, and movements toward local government reform.

**POL-SCI 5524 Urban Politics**
A seminar on politics and government in urban areas with special attention to community leadership, power structures, interest group and party activity, political behavior, and movements toward local government reform.

**POL-SCI 5530 Seminar in International Relations**
This course examines major schools of thought that attempt to explain contemporary and historical international politics. Topics discussed include international systems, the balance of power, collective security, and international political economy, morality, and law.

**POL-SCI 5530 Seminar in International Relations**
This course examines major schools of thought that attempt to explain contemporary and historical international politics. Topics discussed include international systems, the balance of power, collective security, and international political economy, morality, and law.

**POL-SCI 5541 American Political Thought**
This course will focus on intellectual reactions to the major periods in American history (the movement for independence, the writing of the constitution, the Jacksonian period, the civil war debate, the growth of big business, the rise of the positive state and contemporary America). Contemporary theorists will be included along with Jefferson, Madison, Hamilton and Marshall.

**POL-SCI 5541 American Political Thought**
This course will focus on intellectual reactions to the major periods in American history (the movement for independence, the writing of the constitution, the Jacksonian period, the civil war debate, the growth of big business, the rise of the positive state and contemporary America). Contemporary theorists will be included along with Jefferson, Madison, Hamilton and Marshall.

**POL-SCI 5542 Constitutional Interpretation**
This course will provide an in-depth treatment of selected areas of constitutional development, related to various aspects of public policy developed under the Constitution through judicial interpretation, including federalism, equality, fundamental rights and freedom of expression.

**POL-SCI 5542 Constitutional Interpretation**
This course will provide an in-depth treatment of selected areas of constitutional development, related to various aspects of public policy developed under the Constitution through judicial interpretation, including federalism, equality, fundamental rights and freedom of expression.

**POL-SCI 5570 The Politics Of Social Security**
This course will concentrate upon the principles of social insurance in general, and of the American Social Security system in
particular. It will consider the system in relation to the history and traditions of American society. It will analyze popular misconceptions and will pay special attention to the political, economic, and demographic issues relevant to Social Security's current operation and to the program's future.

**POL-SCI 5570** The Politics Of Social Security
This course will concentrate upon the principles of social insurance in general, and of the American Social Security system in particular. It will consider the system in relation to the history and traditions of American society. It will analyze popular misconceptions and will pay special attention to the political, economic, and demographic issues relevant to Social Security's current operation and to the program's future.

**POL-SCI 5575** Political Ideologies
Consideration of political ideologies and their effects, with in-depth research into selected topics.

**POL-SCI 5575** Political Ideologies
Consideration of political ideologies and their effects, with in-depth research into selected topics.

**POL-SCI 5580** Government And Politics Seminar
Offered as a special seminar in the individual faculty member's area of research specialization. The seminar may be repeated for credit when the topic varies. The topic and instructor will be announced in advance.

**POL-SCI 5580** Government And Politics Seminar
Offered as a special seminar in the individual faculty member's area of research specialization. The seminar may be repeated for credit when the topic varies. The topic and instructor will be announced in advance.

**POL-SCI 5590** Directed Studies And Research
Under the direction of the instructor, students in this course will produce a major research paper: a self-contained thesis chapter, an article for publication or the equivalent. May be repeated for credit.

**POL-SCI 5590** Directed Studies And Research
Under the direction of the instructor, students in this course will produce a major research paper: a self-contained thesis chapter, an article for publication or the equivalent. May be repeated for credit.

**POL-SCI 5599** Thesis
Directed specialized research.

**POL-SCI 5599** Thesis
Directed specialized research.

**POL-SCI 5680** Traditions, Theories, And Trends In Political Science
This intensive survey of political science provides an opportunity for integration of the study of political values, behavior, and institutions with other social sciences.

**POL-SCI 5680** Traditions, Theories, And Trends In Political Science
This intensive survey of political science provides an opportunity for integration of the study of political values, behavior, and institutions with other social sciences.

**POL-SCI 5688** Doctoral Research Seminar
Students will produce a major research paper under the direction of the instructor. The research project will consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

**POL-SCI 5688** Doctoral Research Seminar
Students will produce a major research paper under the direction of the instructor. The research project will consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

**POL-SCI 5697** Doctoral-Level Independent Readings
Individual readings under the supervision of members of the Political Science Graduate or Doctoral Faculty in the specified topic or topics. May be repeated. May not be taken during an academic year in which a graduate course or seminar is offered on the topic.

**POL-SCI 5697** Doctoral-Level Independent Readings
Individual readings under the supervision of members of the Political Science Graduate or Doctoral Faculty in the specified topic or topics. May be repeated. May not be taken during an academic year in which a graduate course or seminar is offered on the
topic.

**POL-SCI 5697A** Doctoral-Level Ir: American National Politics And Institutions

**POL-SCI 5697A** Doctoral-Level Ir: American National Politics And Institutions

**POL-SCI 5697I** Doctoral-Level Ir: International Politics And Processes

**POL-SCI 5697I** Doctoral-Level Ir: International Politics And Processes

**POL-SCI 5697L** Doctoral-Level Ir: Public Law

**POL-SCI 5697L** Doctoral-Level Ir: Public Law

**POL-SCI 5697O** Doctoral-Level Ir: Public Opinion And Voter Behavior

**POL-SCI 5697O** Doctoral-Level Ir: Public Opinion And Voter Behavior

**POL-SCI 5697R** Doctoral-Level Ir: Research Methods

**POL-SCI 5697R** Doctoral-Level Ir: Research Methods

**POL-SCI 5697T** Doctoral-Level Ir: Political Theory

**POL-SCI 5697T** Doctoral-Level Ir: Political Theory

**POL-SCI 5697U** Doctoral-Level Ir: Urban And State Politics

**POL-SCI 5697U** Doctoral-Level Ir: Urban And State Politics

**POL-SCI 5699** Research And Dissertation
Directed specialized research.

**POL-SCI 5699** Research And Dissertation
Directed specialized research.

**POL-SCI 5899** Required Graduate Enrollment

**POL-SCI 5899** Required Graduate Enrollment

**Psychology (PSYCH)**

**PSYCH 500PS** Special Topics Umkc
PSYCH 510PS Special Topics Umke

PSYCH 5504 Contemporary Issues In Learning
A discussion and analysis of recent research and theoretical papers in learning. Prerequisite: PSYCH 304 or equivalent. The student will have to demonstrate undergraduate competence in learning in the first few weeks of this course in order to remain enrolled.

PSYCH 5504 Contemporary Issues In Learning
A discussion and analysis of recent research and theoretical papers in learning. Prerequisite: PSYCH 304 or equivalent. The student will have to demonstrate undergraduate competence in learning in the first few weeks of this course in order to remain enrolled.

PSYCH 5505 Motivation
The definition of the concept of motivation is explored. Emphasis is placed upon integration of the concept of motivation into comprehensive theoretical explanations of phenomena. Students should have in their background a foundation in Learning Theory (or at least Theory Construction) and Experimental (Scientific Method). Previous laboratory experiences are desired.

PSYCH 5505 Motivation
The definition of the concept of motivation is explored. Emphasis is placed upon integration of the concept of motivation into comprehensive theoretical explanations of phenomena. Students should have in their background a foundation in Learning Theory (or at least Theory Construction) and Experimental (Scientific Method). Previous laboratory experiences are desired.

PSYCH 5507 Cognitive Psychology
An overview of the cognitive approach to the study of human behavior. Recent research and theoretical issues in the areas of perception, memory, and concept formation are emphasized.

PSYCH 5507 Cognitive Psychology
An overview of the cognitive approach to the study of human behavior. Recent research and theoretical issues in the areas of perception, memory, and concept formation are emphasized.

PSYCH 5509 Assessment 1: Intellectual And Cognitive Assessment
This course is designed to provide students with a foundation in the use of intellectual and cognitive assessment instruments in clinical evaluation. The course covers theoretical issues pertinent to intellectual and cognitive assessment, as well as basic assessment skills including administration, scoring, interpretation, and communication of results for commonly used measures. Prerequisites: Consent of instructor.

PSYCH 5509 Assessment 1: Intellectual And Cognitive Assessment
This course is designed to provide students with a foundation in the use of intellectual and cognitive assessment instruments in clinical evaluation. The course covers theoretical issues pertinent to intellectual and cognitive assessment, as well as basic assessment skills including administration, scoring, interpretation, and communication of results for commonly used measures. Prerequisites: Consent of instructor.

PSYCH 5510 Assessment Methods In Professional Counseling
This course provides an understanding of assessment process and assessment techniques. Skills and practice in selection, administration, and interpretation of representative assessment instruments. Two semester hours lecture, two semester hours lab experience per week. Cross-listed: CPCE 515. Prerequisite: Course on assessment of intellectual functioning

PSYCH 5510 Assessment Methods In Professional Counseling
This course provides an understanding of assessment process and assessment techniques. Skills and practice in selection, administration, and interpretation of representative assessment instruments. Two semester hours lecture, two semester hours lab experience per week. Cross-listed: CPCE 515. Prerequisite: Course on assessment of intellectual functioning

PSYCH 5511 Principles Of Assessment In Psychology
This will be a field practicum course in which test batteries will be used to assess and evaluate the intelligence, personality, and aptitude of the individual. Prerequisite: PSYCH 510 and consent of the instructor.

PSYCH 5511 Principles Of Assessment In Psychology
This will be a field practicum course in which test batteries will be used to assess and evaluate the intelligence, personality, and aptitude of the individual. Prerequisite: PSYCH 510 and consent of the instructor.
PSYCH 5512 Contemporary Issues In Social Psychology
A critical survey of the recent literature in social psychology with emphasis on experimental investigations. Prerequisite: PSYCH 312.

PSYCH 5512 Contemporary Issues In Social Psychology
A critical survey of the recent literature in social psychology with emphasis on experimental investigations. Prerequisite: PSYCH 312.

PSYCH 5515 Advanced Systems And History Of Psychology
In depth review of the major theoretical systems of psychology in terms of historical assumptions, methodologies and developments with the goal of enabling the student to better evaluate current theories and assumptions in psychology. Prerequisite: PSYCH 415 or equivalent.

PSYCH 5515 Advanced Systems And History Of Psychology
In depth review of the major theoretical systems of psychology in terms of historical assumptions, methodologies and developments with the goal of enabling the student to better evaluate current theories and assumptions in psychology. Prerequisite: PSYCH 415 or equivalent.

PSYCH 5516 Quantitative Analysis II: Advanced Topics In Regression And Mda
This graduate level statistics course for students in the behavioral sciences and education provides a strong conceptual understanding of two major statistical procedures with the context of the general linear model: multiple regression and numerous analysis of variance (ANOVA) models. Students will learn to select appropriate statistical techniques, test the assumptions of the techniques, analyze data using statistical software, and report the results of their analyses in the format of the American Psychological Association (APA, 2002). Prerequisites: An introductory inferential statistics course (EDUC-R&P 505, PSYCH 316) and basic knowledge of research design (EDUC-R&P 505, PSYCH 302). Cross-listed: EDUC-R&P 605. Offered: Fall.

PSYCH 5516 Quantitative Analysis II: Advanced Topics In Regression And Mda
This graduate level statistics course for students in the behavioral sciences and education provides a strong conceptual understanding of two major statistical procedures with the context of the general linear model: multiple regression and numerous analysis of variance (ANOVA) models. Students will learn to select appropriate statistical techniques, test the assumptions of the techniques, analyze data using statistical software, and report the results of their analyses in the format of the American Psychological Association (APA, 2002). Prerequisites: An introductory inferential statistics course (EDUC-R&P 505, PSYCH 316) and basic knowledge of research design (EDUC-R&P 505, PSYCH 302). Cross-listed: EDUC-R&P 605. Offered: Fall.

PSYCH 5517 Quantitative Analysis II: Advanced Topics In Regression And Mda
This graduate level statistics course for students in the behavioral sciences and education provides a strong conceptual understanding of advanced topics in regression (interaction effects, logistic regression, path analysis) and various multivariate techniques (MANOVA, canonical correlation, factor analysis). Students will complete a series of data based projects that allow them to demonstrate their skills in analysis, reporting and interpretation of findings. Prerequisites: EDUC-R&P 605/PSYCH 516 and basic knowledge of SPSS or SAS software and research design (EDUC-R&P 505, PSYCH 302). Cross-listed: EDUC-R&RP 606. Offered: Winter.

PSYCH 5517 Quantitative Analysis II: Advanced Topics In Regression And Mda
This graduate level statistics course for students in the behavioral sciences and education provides a strong conceptual understanding of advanced topics in regression (interaction effects, logistic regression, path analysis) and various multivariate techniques (MANOVA, canonical correlation, factor analysis). Students will complete a series of data based projects that allow them to demonstrate their skills in analysis, reporting and interpretation of findings. Prerequisites: EDUC-R&P 605/PSYCH 516 and basic knowledge of SPSS or SAS software and research design (EDUC-R&P 505, PSYCH 302). Cross-listed: EDUC-R&RP 606. Offered: Winter.

PSYCH 5518 Advanced Biopsychology
This course assumes that the student has mastered the basics of biopsychology, and deals with this topic in greater depth and scope than PSYCH 418. It will begin with a brief review and update of basic materials of neuroanatomy, neuronal conduction, and synaptic transmission but will quickly turn to an emphasis on biological influences on human psychology, in particular those biological factors that are of practical significance in the lives of patient and non-patient populations. Prerequisite: PSYCH 418 or equivalent.

PSYCH 5518 Advanced Biopsychology
This course assumes that the student has mastered the basics of biopsychology, and deals with this topic in greater depth and scope than PSYCH 418. It will begin with a brief review and update of basic materials of neuroanatomy, neuronal conduction, and synaptic transmission but will quickly turn to an emphasis on biological influences on human psychology, in particular those biological factors that are of practical significance in the lives of patient and non-patient populations. Prerequisite: PSYCH 418
or equivalent.

PSYCH 5521 Advanced Social Psychology
The study of the individual in a social context. How social structure and interaction influence the behavior of an individual. Several contemporary systematic positions will be compared. Prerequisite: PSYCH 312.

PSYCH 5521 Advanced Social Psychology
The study of the individual in a social context. How social structure and interaction influence the behavior of an individual. Several contemporary systematic positions will be compared. Prerequisite: PSYCH 312.

PSYCH 5522 Contemporary Issues In Developmental Psychology
A discussion of recent research literature in developmental psychology leading to an individual research project in this area. Prerequisite: PSYCH 322.

PSYCH 5522 Contemporary Issues In Developmental Psychology
A discussion of recent research literature in developmental psychology leading to an individual research project in this area. Prerequisite: PSYCH 322.

PSYCH 5523 Seminar Personality Theory And Methodology
A study of the social-cultural, trait, learning, perceptual, motivational, and field theories of personality with special emphasis on research studies and the methodology of personality research. Prerequisite: PSYCH 323.

PSYCH 5523 Seminar Personality Theory And Methodology
A study of the social-cultural, trait, learning, perceptual, motivational, and field theories of personality with special emphasis on research studies and the methodology of personality research. Prerequisite: PSYCH 323.

PSYCH 5530 Addressing Health Disparities through Community-based Participatory Research
The purpose of this course is to familiarize students with the principles of community-based participatory research as a strategy to reduce health disparities. Students will learn how CBPR principles are applied across the research continuum for developing new community partnerships, conducting needs assessments, developing culturally-appropriate health promotion interventions in collaboration with community-based organizations, and packaging health interventions for dissemination in minority communities. This class is organized with a service learning component which will require students to work with a local community-based organization on a health issue for which there is joint interest. Permission of instructor required.

PSYCH 5533 Psychopathology
A review of the experimental-clinical literature concerning the behavior disorders with special reference to their classification and etiology. Prerequisites: Consent of instructor required. Course generally will be restricted to students enrolled in license-eligible specialties who have had an undergraduate course in abnormal psychology.

PSYCH 5533 Psychopathology
A review of the experimental-clinical literature concerning the behavior disorders with special reference to their classification and etiology. Prerequisites: Consent of instructor required. Course generally will be restricted to students enrolled in license-eligible specialties who have had an undergraduate course in abnormal psychology.

PSYCH 5538 Development And Evaluation Of Assessment Tools
This survey course examines test theories, construction, and measurement theories. Within the context of a variety of conceptual frameworks and examples, students become knowledgeable about the various purposes, approaches, and computer software tools for measurement. Prerequisites: PSYCH 516 and PSYCH 517 Offered: Every Winter

PSYCH 5538 Development And Evaluation Of Assessment Tools
This survey course examines test theories, construction, and measurement theories. Within the context of a variety of conceptual frameworks and examples, students become knowledgeable about the various purposes, approaches, and computer software tools for measurement. Prerequisites: PSYCH 516 and PSYCH 517 Offered: Every Winter

PSYCH 5540 The Psychology Of Aging
This course will identify major issues concerning psychology related to aging. The major influences on the behavior, cognitive functioning and emotions of older adults will be examined. Consideration will be given to individual, group and environmental influences. Possible interventions will be identified. Cross-sectional and longitudinal research will be reviewed in order to examine the changes in individuals due to aging and the differences between cohort groups. Three major areas of information will be the focus: concepts, theory and methods in psychology of aging; biological and social influences on behavior; and behavioral processes. There will be a review of current literature.
PSYCH 5540 The Psychology Of Aging
This course will identify major issues concerning psychology related to aging. The major influences on the behavior, cognitive functioning and emotions of older adults will be examined. Consideration will be given to individual, group and environmental influences. Possible interventions will be identified. Cross-sectional and longitudinal research will be reviewed in order to examine the changes in individuals due to aging and the differences between cohort groups. Three major areas of information will be the focus: concepts, theory and methods in psychology of aging; biological and social influences on behavior; and behavioral processes. There will be a review of current literature.

PSYCH 5543 Adult Development And Aging
This course will identify major themes and issues of mid-life and older adults. It will examine major developmental theories of adult development and aging. A contextual approach is stressed, including research and theory on the impact of cohort, gender, race/ethnicity, socioeconomic status, and culture on development. Application to real life is integrated throughout the course. There will be a review of current literature.

PSYCH 5543 Adult Development And Aging
This course will identify major themes and issues of mid-life and older adults. It will examine major developmental theories of adult development and aging. A contextual approach is stressed, including research and theory on the impact of cohort, gender, race/ethnicity, socioeconomic status, and culture on development. Application to real life is integrated throughout the course. There will be a review of current literature.

PSYCH 5550 Field Practicum
Provides supervised experience working in community agencies/organizations which address various human and social problems. Students receive training in community service oriented skills and approaches, e.g., advocacy, community organizing, program assessment, development and evaluation, outreach, and applied research. Ten hours per week at practicum site and class attendance are required. Prerequisite: Consent of instructor. Offered: Fall and winter.

PSYCH 5550 Field Practicum
Provides supervised experience working in community agencies/organizations which address various human and social problems. Students receive training in community service oriented skills and approaches, e.g., advocacy, community organizing, program assessment, development and evaluation, outreach, and applied research. Ten hours per week at practicum site and class attendance are required. Prerequisite: Consent of instructor. Offered: Fall and winter.

PSYCH 5575 Professional Issues And Ethics In Psychology
Ethical and legal problems of research and practice will be discussed. Professional organizations in psychology and their publications will be reviewed.

PSYCH 5575 Professional Issues And Ethics In Psychology
Ethical and legal problems of research and practice will be discussed. Professional organizations in psychology and their publications will be reviewed.

PSYCH 5575A Professional Issues & Ethics

PSYCH 5580 Special Topics

PSYCH 5580 Special Topics

PSYCH 5580AD Special Topics

PSYCH 5580AD Special Topics

PSYCH 5580SM Special Topics
PSYCH 5580SM Special Topics

PSYCH 5582 Community Mental Health
A review of current theory and research. The emphasis is on prevention rather than treatment of mental health problems. The assets and liabilities of neighborhood communities for mental health problems will be discussed. Recent methods in crisis intervention are reviewed. Each student will be required to become familiar with a neighborhood with a high incidence of application for mental health care.

PSYCH 5582 Community Mental Health
A review of current theory and research. The emphasis is on prevention rather than treatment of mental health problems. The assets and liabilities of neighborhood communities for mental health problems will be discussed. Recent methods in crisis intervention are reviewed. Each student will be required to become familiar with a neighborhood with a high incidence of application for mental health care.

PSYCH 5586 Theory, Research And Practice Of Consultation
Theory and research on community, mental health, organizational and agency consultation. Entry, process, outcome and ethical issues surrounding each model of intervention will be explored. Each student will be expected to conduct and report on a consultation project.

PSYCH 5586 Theory, Research And Practice Of Consultation
Theory and research on community, mental health, organizational and agency consultation. Entry, process, outcome and ethical issues surrounding each model of intervention will be explored. Each student will be expected to conduct and report on a consultation project.

PSYCH 5590 Directed Research

PSYCH 5590 Directed Research

PSYCH 5597 Directed Readings In Psychology
Intensive readings in areas of joint interest to the enrolled student and the cooperating faculty. Prerequisite: Consent of instructor. Offered: Every Semester

PSYCH 5597 Directed Readings In Psychology
Intensive readings in areas of joint interest to the enrolled student and the cooperating faculty. Prerequisite: Consent of instructor. Offered: Every Semester

PSYCH 5599 Research And Thesis

PSYCH 5599 Research And Thesis

PSYCH 5601 Experimental Methods In Design And Analysis I
An examination of multifactor and multilevel designs and interactions. Topics covered will include randomized block designs. Latin square designs, complex trend analysis designs, covariance designs and multiple comparison of treatment means.

PSYCH 5601 Experimental Methods In Design And Analysis I
An examination of multifactor and multilevel designs and interactions. Topics covered will include randomized block designs. Latin square designs, complex trend analysis designs, covariance designs and multiple comparison of treatment means.

PSYCH 5604 Field Practicum In Community Psychology
Supervised experience in health care, social welfare, correctional, political, ethnic, and neighborhood agencies. May be repeated six times for up to 18 credit hours. Each semester.

PSYCH 5604 Field Practicum In Community Psychology
Supervised experience in health care, social welfare, correctional, political, ethnic, and neighborhood agencies. May be repeated six times for up to 18 credit hours. Each semester.
PSYCH 5611 Theories & Methods Of Assessment & Intervention/Community Psych
Review of the assessment and intervention literature in social situations will be conducted. Students will design and carry out an assessment and an intervention project.

PSYCH 5611 Theories & Methods Of Assessment & Intervention/Community Psych
Review of the assessment and intervention literature in social situations will be conducted. Students will design and carry out an assessment and an intervention project.

PSYCH 5612 Program Evaluation And Research Dissemination
A study of the area of applied research in which process and outcome characteristics of programs are related explicitly to a set of values, such as program goals, objectives and costs.

PSYCH 5612 Program Evaluation And Research Dissemination
A study of the area of applied research in which process and outcome characteristics of programs are related explicitly to a set of values, such as program goals, objectives and costs.

PSYCH 5614 Prevention Science I: Theories, Principles And Methods
Course provides a comprehensive overview of the field of prevention emphasizing basic concepts, conceptual models, and approaches associated with prevention in the field of psychology. The goal is to provide knowledge that will allow students to critically evaluate prevention programs in their communities. Students apply their learning by conducting a critical analysis of an existing community prevention and/or health promotion initiative. Prerequisite: none Offered: Every winter

PSYCH 5614 Prevention Science I: Theories, Principles And Methods
Course provides a comprehensive overview of the field of prevention emphasizing basic concepts, conceptual models, and approaches associated with prevention in the field of psychology. The goal is to provide knowledge that will allow students to critically evaluate prevention programs in their communities. Students apply their learning by conducting a critical analysis of an existing community prevention and/or health promotion initiative. Prerequisite: none Offered: Every winter

PSYCH 5615 Prevention Science II: Applications
This advanced seminar is the follow-up course to Prevention Science I. Emphasis is placed on the application of prevention science to specific content areas (e.g., substance abuse, violence in schools physical or sexual abuse, AIDS/HIV infection, infant mortality, cardiovascular disease, promoting social competence.) A semester project involves an in-depth review of prevention efforts in the chosen area of interest, resulting in a comprehensive research proposal and/or public policy analysis. Prerequisite: PSYCH 614 (Prevention Science I) Offered: Even years, fall semester, beginning 2000

PSYCH 5615 Prevention Science II: Applications
This advanced seminar is the follow-up course to Prevention Science I. Emphasis is placed on the application of prevention science to specific content areas (e.g., substance abuse, violence in schools physical or sexual abuse, AIDS/HIV infection, infant mortality, cardiovascular disease, promoting social competence.) A semester project involves an in-depth review of prevention efforts in the chosen area of interest, resulting in a comprehensive research proposal and/or public policy analysis. Prerequisite: PSYCH 614 (Prevention Science I) Offered: Even years, fall semester, beginning 2000

PSYCH 5622 Theoretical And Ethical Issues In Professional Psychology
This course is designed to introduce first year doctoral students to the fundamental concepts and methods of psychology conceived as the application of scientific and ethical reasoning to human problems. It will provide an in-depth examination of the American Psychological Association code of ethics and its application to the conduct of psychologists. Critical and analytical thinking will be emphasized in all aspects of the course. The course will cover broad models of clinical and counseling psychology and their historical and scientific foundations, issues in diagnosis, cross-cultural applications and professional problems in light of ethical principles, professional standards, scientific data & multi-cultural contexts. Prerequisite: consent of the instructor. Offered: Fall.

PSYCH 5622 Theoretical And Ethical Issues In Professional Psychology
This course is designed to introduce first year doctoral students to the fundamental concepts and methods of psychology conceived as the application of scientific and ethical reasoning to human problems. It will provide an in-depth examination of the American Psychological Association code of ethics and its application to the conduct of psychologists. Critical and analytical thinking will be emphasized in all aspects of the course. The course will cover broad models of clinical and counseling psychology and their historical and scientific foundations, issues in diagnosis, cross-cultural applications and professional problems in light of ethical principles, professional standards, scientific data & multi-cultural contexts. Prerequisite: consent of the instructor. Offered: Fall.

PSYCH 5623 Methods Of Counseling In Professional Psychology
This course is designed to introduce students to the fundamental concepts and methods of counseling in professional psychology.
Students will apply ethical and multicultural principles to the helping relationship while learning the basic methods of humanistic, psychodynamic, and cognitive behavioral approaches as they related to the helping process. A main focus of this course is the acquisition of basic helping skills. Students will also become familiar with counseling outcome research and will increase their level of counselor self-awareness. Prerequisite: PSYCH 622. Cross-listed: CPCE 530 Offered: Winter.

**PSYCH 5623** Methods Of Counseling In Professional Psychology
This course is designed to introduce students to the fundamental concepts and methods of counseling in professional psychology. Students will apply ethical and multicultural principles to the helping relationship while learning the basic methods of humanistic, psychodynamic, and cognitive behavioral approaches as they related to the helping process. A main focus of this course is the acquisition of basic helping skills. Students will also become familiar with counseling outcome research and will increase their level of counselor self-awareness. Prerequisite: PSYCH 622. Cross-listed: CPCE 530 Offered: Winter.

**Psych 5625** Health Research Methods: Intro To Epidemiology & Clinical Trials
This course will introduce graduate students in health-related disciplines to research methods utilized in understanding disease and health risk in humans and conducting intervention trials. Students will learn about how epidemiology contributes to: 1) identifying factors that cause diseases; 2) assessing the public health importance of diseases; 3) describing the natural history of diseases; and 4) evaluating procedures for preventing or treating diseases. After completing this course, students should be able to read and summarize epidemiological research papers and answer questions about a study's purpose, design, methods of procedure, results, and major strengths and weaknesses. Prerequisites: Admission to graduate standing; PSYCH 601, or equivalent. Offered: Every Winter.

**Psych 5625** Health Research Methods: Intro To Epidemiology & Clinical Trials
This course will introduce graduate students in health-related disciplines to research methods utilized in understanding disease and health risk in humans and conducting intervention trials. Students will learn about how epidemiology contributes to: 1) identifying factors that cause diseases; 2) assessing the public health importance of diseases; 3) describing the natural history of diseases; and 4) evaluating procedures for preventing or treating diseases. After completing this course, students should be able to read and summarize epidemiological research papers and answer questions about a study's purpose, design, methods of procedure, results, and major strengths and weaknesses. Prerequisites: Admission to graduate standing; PSYCH 601, or equivalent. Offered: Every Winter.

**Psych 5631** Theoretical Foundations Of Health Psychology
This course will introduce students to the theoretical foundations of health psychology, including the Biopsychosocial model, individual and systems level theories of behavior change, stress and coping, disease prevention and health promotion, as well as adherence and relapse models. Upon completion of this course students will possess a broad understanding of how cognitive, behavioral, and social factors interact with biological parameters in influencing morbidity and mortality. In addition, students will become familiar with several substantive areas (e.g., chronic pain, HIV/AIDS, cancer, sleep disorders, cardiovascular risk reduction), research methods, and multicultural and ethical issues in health psychology.

**Psych 5631** Theoretical Foundations Of Health Psychology
This course will introduce students to the theoretical foundations of health psychology, including the Biopsychosocial model, individual and systems level theories of behavior change, stress and coping, disease prevention and health promotion, as well as adherence and relapse models. Upon completion of this course students will possess a broad understanding of how cognitive, behavioral, and social factors interact with biological parameters in influencing morbidity and mortality. In addition, students will become familiar with several substantive areas (e.g., chronic pain, HIV/AIDS, cancer, sleep disorders, cardiovascular risk reduction), research methods, and multicultural and ethical issues in health psychology.

**Psych 5632** Health Psychology Interventions
This course will introduce students to a wide range of psychological assessment and intervention strategies that can be used in health care settings. Individual, group, community and policy interventions will be discussed. This course may be used for credit in the Health Psychology Discipline of the Interdisciplinary Ph.D. Program. Prerequisite: PSYCH 631 and consent of instructor. Offered: Every Winter.

**Psych 5632** Health Psychology Interventions
This course will introduce students to a wide range of psychological assessment and intervention strategies that can be used in health care settings. Individual, group, community and policy interventions will be discussed. This course may be used for credit in the Health Psychology Discipline of the Interdisciplinary Ph.D. Program. Prerequisite: PSYCH 631 and consent of instructor. Offered: Every Winter.

**Psych 5638** Seminar In Health Care Leadership
This course is designed to offer an educational experience that fosters both the knowledge and skills needed for leaders of healthcare in the future. The instructors will guide students through the process of generating new thinking, creating new knowledge, and enhancing interpersonal and professional effectiveness. Course topics will include what creates health and
quality of life, social capital and health, healthcare policy, collaborative problem-solving, and transformational leadership and systems thinking.

**PSYCH 5638 Seminar In Health Care Leadership**
This course is designed to offer an educational experience that fosters both the knowledge and skills needed for leaders of healthcare in the future. The instructors will guide students through the process of generating new thinking, creating new knowledge, and enhancing interpersonal and professional effectiveness. Course topics will include what creates health and quality of life, social capital and health, healthcare policy, collaborative problem-solving, and transformational leadership and systems thinking.

**PSYCH 5650 Clinical Practicum**
Advanced supervised assessment and psychotherapy with individuals and groups in applied settings. Preregistration by application to instructor at least 60 days prior to the beginning of the semester. Approval by Psychology Director of Clinical training required. Prerequisite: PSYCH 623 and consent of instructor and Director of Clinical Training.

**PSYCH 5660 Clinical Health Psychology Internship**
Planned sequence of training experiences in an organized program designed to prepare students for the practice of professional psychology. Prerequisite: Consent of instructor.

**PSYCH 5696 Pre-Dissertation**
Individualized research experiences to prepare students for the conduct of the dissertation. Pre-requisite: consent of instructor. Offered: continuous Every semester.

**PSYCH 5699 Research And Dissertation**

**PSYCH 5899 Required Graduate Enrollment**

**PSYCH 604A Field Practicum In Community Psychology**

**Religious Studies (RELIG-ST)**
**RELIG-ST 5500 Special Topics In Religious Studies**
Special topics in religious studies. The focus of the course will vary by semester and instructor.

**RELIG-ST 5500 Special Topics In Religious Studies**
Special topics in religious studies. The focus of the course will vary by semester and instructor.

**RELIG-ST 5500A Special Topics In Religious Studies**
RELIG-ST 5500A Special Topics In Religious Studies

RELIG-ST 5500B Special Topics In Religious Studies

RELIG-ST 5500B Special Topics In Religious Studies

RELIG-ST 5500C Special Topics In Religious Studies

RELIG-ST 5500C Special Topics In Religious Studies

RELIG-ST 5500D Special Topics in Religious Studies

RELIG-ST 5500E Special Topics In Religious Studies

RELIG-ST 5500F Special Topics In Religious Studies

RELIG-ST 5501A Religion In America
An in-depth examination of selected aspects of the history of religions in America from the colonial period to the present. Special emphasis will be given to methodological issues in the study of American religious history. Offered: On Demand

RELIG-ST 5502 Religion & Colonialism in Latin America
The study of selected aspects of the history of religions in the Americas. Primary focus is on the complex ways that European, Native American Africans religions helped to structure and negotiate the experiences and the significance of cultural contact and colonialism through lived worlds of meaning.

RELIG-ST 5503 Visions, Dreams, and Prophesies as Religious Phenomena
This course explores the way visions, dreams, and prophesies have acquired religious significance in Western and non-western contexts from the ancient to the present.

RELIG-ST 5504 Gender and Religion
Cross-cultural and comparative study of how religious groups create and transmit gender roles and expectations.

RELIG-ST 5506 The History of Christianity to the Middle Ages
This course examines the historical and theological development of Christianity from its origins to the the High Middle Ages The main themes follow the mechanisms and conditions shaping Christianity's expansion into a major social, institutional and intellectual force with a focus on patterns of crisis and reform. This course is based on the study of primary sources ( both texts and objects) and modern scholarship. Cross-listed as HISTORY 5506A

RELIG-ST 5507 The History of Christianity from the Middle Ages to the Present
This course examines the historical and theological development of Christianity from the High Middle Ages to the present. The main themes follow the mechanisms and conditions shaping Christianity's expansion into a major social, institutional and intellectual force with a focus on patterns of crisis and reform. This course is based on the study of primary sources ( both texts and objects) and modern scholarship.Cross-listed as HISTORY 5507A

RELIG-ST 5508 Anthropology of Religion
This course explores the ways anthropologists have gone about studying religion from the opening decades of the 20th century to present. The course introduces students to the diversity of human religious expression and experience through anthropological literature and to the diversity of anthropological expression especially as it has been revealed in social scientific studies of religious life. The course is designed to generate a critical dialogue about the special role that religion has played in the ongoing anthropological engagement with ""other"" societies and cultures over time.

RELIG-ST 5510 Religions Of The World
This course is designed to introduce graduate students to the major religions of the world, as well as to selected small-group religions. Our goal will be to learn to appreciate the similarities and differences in the structure and history of these religions. A
primary focus will be on using the categories of the history of religions to examine and analyze the various dimensions of religion (e.g., historical, sociological, ritual, mythological, aesthetic). In addition, methodological issues of comparison will be addressed.

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RELIG-ST 5567 Myth and Ritual
Myth and "ritual" have long been fundamental categories in the study of religion. This course will briefly survey some of the major theories and approaches to the study of myth and ritual from the Enlightenment to the present. Will not only trace the shifting meanings of "myth" and "ritual," but will critically evaluate the utility of diverse approaches to the study of religious phenomena designated by these terms. Reading will include theoretical works, as well as selected case studies.

RELIG-ST 5584RS Sacred Narratives And Texts
This course will study the "social lives" of sacred narratives and texts as they circulate within religious communities. Among the topics to be studied are methods of exegesis in different religious traditions, orality and literacy (including the re réalization of written texts), the canonization process, the emergence of interpretive specialists, text as amulets, reading and meditative practices and techniques, and narratives and the arts. The course is comparative, cross-cultural, and interdisciplinary in nature.

RELIG-ST 5586RS Methodological Approaches To The Study Of Religion
This course examines the various disciplines that undertook the critical, objective study of religion beginning in the second half of the nineteenth century and continuing into the present. The course examines how the disciplines of the social sciences and humanities emerged in the last century and how the study of religion emerged from its roots in Jewish scholarship and Christian theology to be included under the umbrella of the humanities and social sciences. The historical development of religious studies as a historical and intellectual contexts.

RELIG-ST 5587 Contemporary Approaches to the Study of Religion
A survey of major scholars and theorists of religion from 1950 to the present, with an emphasis on significant shifts in the field.

RELIG-ST 5587RS Research Seminar
Students in this course will produce a major research paper under the direction of the instructor: a self-contained thesis chapter, an article for publication or the equivalent.

RELIG-ST 5592 Cults Sects, And New Religious Movements
In this course, students will experience: (a) a variety of methods for analyzing and understanding new religious movements in society: sociological, historical, and textual; (b) an introduction to the broad spectrum of religious beliefs which exist (and flourish) outside the cultural mainstream; and (c) an introduction to some of the means by which dominant religious and secular culture has confronted the presence of NRM-s-e.g., deprogramming exit counseling, and theologically oriented countermovement. Offered: On demand
RELIG-ST 5592 Cults, Sects, And New Religious Movements
In this course, students will experience: (a) a variety of methods for analyzing and understanding new religious movements in society; sociological, historical, and textual; (b) an introduction to the broad spectrum of religious beliefs which exist (and flourish) outside the cultural mainstream; and (c) an introduction to some of the means by which dominant religious and secular culture has confronted the presence of NRM-e.g., deprogramming exit counseling, and theologically oriented countermovement. Offered: On demand

RELIG-ST 5593 Sex And Religion
The course is designed to highlight issues related to the various ways in which religions of the world have integrated, embraced, or repressed one of the basic human experiences sexual expression. This is an elective course designed for graduate students with Religious Studies either as their coordinating or co-discipline. This is an advanced seminar, and as such does assume a certain measure of theoretical familiarity and background of study. Offered: On demand

RELIG-ST 5594RS Death In The History Of Religions
As a biological "fact," death would appear to be a human universal. Yet, human beings have imagined—and, thus experienced—the meaning of death in many diverse ways in different cultures and over time. This course explores the conceptualization and representation of death and dying, as well as the ritual activities surrounding death, found in selected religious communities. The goals are to gain insight into how people have sought to (re) create a world of meaning in the face of death and to gain a critical perspective on our own contemporary situation.

RELIG-ST 5595RS Time And Space In The History Of Religions
Time and space are essential components of the lived worlds of human beings, yet the cultural and historical constructions of these are remarkably diverse and, moreover, are subject to change. This course is a cross-cultural, interdisciplinary, and comparative exploration of the constructions and experiences of time and space found in selected religious communities and historical periods. In addition, it investigates the pivotal role the categories of "sacred and profane time and space" have played in theorizing religion and in the study of religious myths and rituals in the modern period. Time and space are essential components of the lived worlds of human beings, yet the cultural and historical constructions of these are remarkably diverse and, moreover, are subject to change. This course is a cross-cultural, interdisciplinary, and comparative exploration of the constructions and experiences of time and space found in selected religious communities and historical periods. In addition, it investigates the pivotal role the categories of "sacred and profane time and space" have played in theorizing religion and in the study of religious myths and rituals in the modern period.

RELIG-ST 5596RS Body In The History Of Religions
The human body is the site of extensive imaginal and ritual activities in all religious traditions. This course explores some of the diverse ways religious communities have imagined and experienced the human body, as well as how the body had been manipulated and worked on in an effort to transform the human situation in the world.

RELIG-ST 5597RS Non-Thesis Research/Reading
Individual direction of student reading or research by selected, consenting faculty. This course can be taken only when faculty
RELIG-ST 5597RS Non-Thesis Research/Reading
Individual direction of student reading or research by selected, consenting faculty. This course can be taken only when faculty supervision is unavailable in colloquia or seminars.

RELIG-ST 5598RS Seminar In The History Of Religions
Advanced graduate seminar on a selected topic or problem in the History of Religion. Topic varies, but the seminar will have a methodical or theoretical focus. May be repeated for credit when topic is different.

RELIG-ST 5598RS Seminar In The History Of Religions
Advanced graduate seminar on a selected topic or problem in the History of Religion. Topic varies, but the seminar will have a methodical or theoretical focus. May be repeated for credit when topic is different.

RELIG-ST 5680RS Doctoral Colloquium
This course will examine the writings and theories of major scholars in a particular area of Religious Studies. The authors, works and intellectual currents which form the basis of the colloquium will vary from semester to semester depending upon the professor's expertise and design for the course.

RELIG-ST 5680RS Doctoral Colloquium
This course will examine the writings and theories of major scholars in a particular area of Religious Studies. The authors, works and intellectual currents which form the basis of the colloquium will vary from semester to semester depending upon the professor's expertise and design for the course.

RELIG-ST 5687RS Doctoral Research Seminar
Students in this course will produce a major research paper under the direction of the instructor. This shall consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

RELIG-ST 5687RS Doctoral Research Seminar
Students in this course will produce a major research paper under the direction of the instructor. This shall consist of a self-contained chapter of the dissertation or a work of publishable quality. May be repeated for credit.

RELIG-ST 5697RS Doctoral-Level Independent Readings
Individual reading under the supervision of members of the Religious Studies Doctoral faculty and adjuncts in preparation for the Comprehensive Examination for the Ph.D.

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Individual reading under the supervision of members of the Religious Studies Doctoral faculty and adjuncts in preparation for the Comprehensive Examination for the Ph.D.

RELIG-ST 5699RS Dissertation
Course credits in dissertation.

RELIG-ST 5699RS Dissertation
Course credits in dissertation.

RELIG-ST 5899 Required Graduate Enrollment

RELIG-ST 5899 Required Graduate Enrollment

Social Science (SOC-SCI)
SOC-SCI 500PS Special Topics Umkc

SOC-SCI 5610 Philosophy Of Social Science
This course examines the development of the philosophy of science since the end of the 19th century. In this regard, Positivism, Conventionalism, and Realism as the three major conceptions of science will be studied and their significance as philosophical foundations of the social sciences will be assessed. Particular attention will be given to the emerging philosophy of science (i.e., Scientific Realism) which has profoundly challenged the more established Positivism.
SOC-SCI 5610 Philosophy Of Social Science
This course examines the development of the philosophy of science since the end of the 19th century. In this regard, Positivism, Conventionalism, and Realism as the three major conceptions of science will be studied and their significance as philosophical foundations of the social sciences will be assessed. Particular attention will be given to the emerging philosophy of science (i.e., Scientific Realism) which has profoundly challenged the more established Positivism.

SOC-SCI 5621 Consensus Social Theory
This course explicates the connections between mainstream (or orthodox) approaches in the various social sciences, which can be collectively viewed as Capitalist interdisciplinary social theory. Explication entails positivist philosophy of science, classic liberal political philosophy, neo-classical economics, pluralist political science, human ecology and functionalist sociology. Prerequisite: Social Science 5610

SOC-SCI 5622 Pragmatism & Evolutionary Social Theory
Drawing on the classical pragmatism of Peirce and Dewey as the philosophical framework for inquiry, and the institutional economics of Veblen, Commons, Mitchell, and Ayres, this course develops Evolutionary Social Theory as a paradigm for interdisciplinary social science.

SOC-SCI 5630 Seminar in Research Methodology
This course assists students with the establishment of a framework for their dissertation research that represents a substantive integration of their coordination discipline with the SSC program. The ultimate goal of the seminar is a defensible dissertation proposal for each student. Includes opportunity for participation by supervisory committee members. Prerequisite: SocSci 5610, SocSci 5621, and 1 Critical Theory course

SOC-SCI 5641 History of a Social Science Discipline Econ
The course examines the social and political development of economics that underpins the development of economic theory in the 20th century. Offered on demand. Prerequisites: 555610 of the permission of the instructor.

SOC-SCI 5690 Special Doctoral Reading in Social Science
Special Research Topic in Interdisciplinary Social Science at The Doctoral Level

SOC-SCI 5690A Special Topics

SOC-SCI 5690B Special Topics

SOC-SCI 5690C Special Topics

SOC-SCI 5899 Required Graduate Enrollment

SOC-SCI 5899 Required Graduate Enrollment

Social Work (SOC-WK)
SOC-WK 5510 Foundation Field Practicum I
Students spend 16-hours weekly in a generalist field practicum setting under MSW supervision. Participation in a 12-hour integrated field seminar on campus led by faculty is required. Must take one human behavior course (SOC-WK 5530 or SOC-WK 5531) prior to entering or concurrently with field placement. Must take SOC-WK 5532 concurrently.

SOC-WK 5510 Foundation Field Practicum I
Students spend 16-hours weekly in a generalist field practicum setting under MSW supervision. Participation in a 12-hour integrated field seminar on campus led by faculty is required. Must take one human behavior course (SOC-WK 5530 or SOC-WK 5531) prior to entering or concurrently with field placement. Must take SOC-WK 5532 concurrently.

SOC-WK 5511 Foundation Field Practicum II
Students continue the field practicum experience from SOC-WK 5510 and participation in the integrated seminar on campus. Focus on generalist knowledge, values, and skills. Prerequisite: Completion of SOC-WK 5510 and SOC-WK 5532. Must take SOC-WK 5533 concurrently.
SOC-WK 5511 Foundation Field Practicum II
Students continue the field practicum experience from SOC-WK 5510 and participation in the integrated seminar on campus. Focus on generalist knowledge, values, and skills. Prerequisite: Completion of SOC-WK 5510 and SOC-WK 5532. Must take SOC-WK 5533 concurrently.

SOC-WK 5512 Advanced Field Practicum I
Students are placed in a field setting in their chosen field-of-practice concentration approximately 16 hours per week under the supervision of an MSW field instructor. SOC-WK 5540 must be taken concurrently. One concentration seminar must be taken prior to or concurrently with entering this field placement.

SOC-WK 5512 Advanced Field Practicum I
Students are placed in a field setting in their chosen field-of-practice concentration approximately 16 hours per week under the supervision of an MSW field instructor. SOC-WK 5540 must be taken concurrently. One concentration seminar must be taken prior to or concurrently with entering this field placement.

SOC-WK 5513 Advanced Field Practicum II
Students complete a final semester in their field-of-practice concentration agency setting approximately 16 hours weekly under MSW supervision. SOC-WK 5541 must be taken concurrently.

SOC-WK 5513 Advanced Field Practicum II
Students complete a final semester in their field-of-practice concentration agency setting approximately 16 hours weekly under MSW supervision. SOC-WK 5541 must be taken concurrently.

SOC-WK 5530 Human Behavior: Individuals In The Social Environment
This theory course focuses on the interactional context of human behavior essential to all social work practice. A variety of perspectives are considered in the understanding of the individual; developmental, ecosystemic, biopsychosocial, traditional, and alternative. Diversity and resiliency are the are key course concepts.

SOC-WK 5530 Human Behavior: Individuals In The Social Environment
This theory course focuses on the interactional context of human behavior essential to all social work practice. A variety of perspectives are considered in the understanding of the individual; developmental, ecosystemic, biopsychosocial, traditional, and alternative. Diversity and resiliency are the are key course concepts.

SOC-WK 5531 Human Behavior: Families, Groups, Organizations, And Communities
This theory course applies social work's ecosystemic framework to the understanding of human behavior in families, groups, organizations, and communities. Knowledge and applied theories and paradigms are examined that honor social justice, human diversity, strengths/assets, and community-building to enhance effective social work practice. Prerequisite: SOC-WK 5530

SOC-WK 5531 Human Behavior: Families, Groups, Organizations, And Communities
This theory course applies social work's ecosystemic framework to the understanding of human behavior in families, groups, organizations, and communities. Knowledge and applied theories and paradigms are examined that honor social justice, human diversity, strengths/assets, and community-building to enhance effective social work practice. Prerequisite: SOC-WK 5530

SOC-WK 5532 Foundations Of Social Work Practice I
This course examines the fundamental knowledge, values, and skills of generalist social work practice with a focus on person-in-environment. Course topics include values and ethics, collaborative approaches to helping, stages of the helping process, and beginning practice skills with at-risk populations. Concurrent enrollment in SOC-WK 5510 is required.

SOC-WK 5532 Foundations Of Social Work Practice I
This course examines the fundamental knowledge, values, and skills of generalist social work practice with a focus on person-in-environment. Course topics include values and ethics, collaborative approaches to helping, stages of the helping process, and beginning practice skills with at-risk populations. Concurrent enrollment in SOC-WK 5510 is required.

SOC-WK 5533 Foundations Of Social Work Practice II
This second generalist social work practice course examines effective helping approaches with diverse families, small groups, and communities of identify and/or place. The course also introduces values and working styles for professional practice in organizations. Pre-requisite: SOC-WK 5532 and SOC-WK 5510. Concurrent enrollment in SOC-WK 5511 is required.

SOC-WK 5533 Foundations Of Social Work Practice II
This second generalist social work practice course examines effective helping approaches with diverse families, small groups, and communities of identify and/or place. The course also introduces values and working styles for professional practice in
organizations. Pre-requisite: SOC-WK 5532 and SOC-WK 5510. Concurrent enrollment in SOC-WK 5511 is required.

**SOC-WK 5534 Social Welfare Programs And Policies**
This course examines social policies that direct current social service trends at local, state, and federal levels. Students learn a model of analysis that examines the context in which policy decisions are made and the effects that social service programs and policies have on people's lives.

**SOC-WK 5534 Social Welfare Programs And Policies**
This course examines social policies that direct current social service trends at local, state, and federal levels. Students learn a model of analysis that examines the context in which policy decisions are made and the effects that social service programs and policies have on people's lives.

**SOC-WK 5535 Social Welfare Policy Practice**
This course prepares students with a social justice/empowerment orientation and the knowledge, skills and values needed to become an effective policy advocate, particularly with people who experience the effects of poverty, discrimination, exclusion, and oppression. Pre-requisite: SOC-WK 5534

**SOC-WK 5535 Social Welfare Policy Practice**
This course prepares students with a social justice/empowerment orientation and the knowledge, skills and values needed to become an effective policy advocate, particularly with people who experience the effects of poverty, discrimination, exclusion, and oppression. Pre-requisite: SOC-WK 5534

**SOC-WK 5536 Social Work Research Methods**
This course introduces students to the fundamental knowledge and skills of social work research such as practice evaluation, program planning, and other facets of professional social work practice. Emphasis on application of social research methods in actual practice situations will be used to assist students in skill development.

**SOC-WK 5536 Social Work Research Methods**
This course introduces students to the fundamental knowledge and skills of social work research such as practice evaluation, program planning, and other facets of professional social work practice. Emphasis on application of social research methods in actual practice situations will be used to assist students in skill development.

**SOC-WK 5537 Quantitative Social Work Research Methods**
This course is designed to prepare graduate level students to develop a comprehensive understanding of statistical methods applied to social work research. Students will gain a basic understanding of the research and statistical procedures that are needed for clinicians/researchers to operate within the field today. Students will become proficient in reading, analyzing, and assessing the results of social work publications. Prerequisite: SOC-WK 5536 Social Work Research Method

**SOC-WK 5537 Quantitative Social Work Research Methods**
This course is designed to prepare graduate level students to develop a comprehensive understanding of statistical methods applied to social work research. Students will gain a basic understanding of the research and statistical procedures that are needed for clinicians/researchers to operate within the field today. Students will become proficient in reading, analyzing, and assessing the results of social work publications. Prerequisite: SOC-WK 5536 Social Work Research Method

**SOC-WK 5538 Advanced Standing Seminar: Contemp Trends In Social Work Practice**
This required seminar is designed for BSW's entering the Advanced Standing Program and serves to update and integrate social work practice approaches with contemporary perspectives of human behavior in the social environment. Restriction: Restricted to Advanced Standing Students.

**SOC-WK 5538 Advanced Standing Seminar: Contemp Trends In Social Work Practice**
This required seminar is designed for BSW's entering the Advanced Standing Program and serves to update and integrate social work practice approaches with contemporary perspectives of human behavior in the social environment. Restriction: Restricted to Advanced Standing Students.

**SOC-WK 5539 Adv Standing Sem: Emerging Iss In Soc Welfare Policy And Research**
This required seminar in the Advanced Standing Program examines emerging policy issues and research developments in the field. Students prepare to choose a field-of-practice concentration and to enter the Advanced-level year of study. Restriction: Restricted to Advanced Standing Students.

**SOC-WK 5539 Adv Standing Sem: Emerging Iss In Soc Welfare Policy And Research**
This required seminar in the Advanced Standing Program examines emerging policy issues and research developments in the field. Students prepare to choose a field-of-practice concentration and to enter the Advanced-level year of study. Restriction:
Restricted to Advanced Standing Students.

**SOC-WK 5540 Advanced Social Work Practice I**
This course prepares students with an advanced generalist social work perspective and to evaluate and integrate theory, values, and skills for assessment and direct practice with complex case situations in a rapidly changing service environment. Must be taken concurrently with SOC-WK 5512. Prerequisite: Completion of foundation year.

**SOC-WK 5541 Advanced Social Work Practice II**
This course extends the advanced generalist model of social work practice to working with challenging families and small groups. The course introduces leadership, organizational, and management competencies for professional practice in social service agencies and skills for coalition-building and collaboration in communities. Must be taken concurrently with SOC-WK 5513. Prerequisite: Completion of foundation year.

**SOC-WK 5542 Social Services With Older Adults**
This course provides an overview of social service practice with older adults. Students examine population demographics, identify normal and abnormal aspects of aging, and examine methods, paradigms, and approaches to effective advanced generalist practice in treatment and community settings. Prerequisite: Completion of foundation year.

**SOC-WK 5544 Families, Communities and Child Welfare**
This course examines child centered, family centered and neighborhood based approaches to child welfare. Prerequisites: Completion of Social Work Foundation Sequence

**SOC-WK 5546 Mental Health and Substance Abuse in Social Work Practice**
This course examines current practice approaches and policy/research issues in mental health and in the dually diagnosed. Students focus on service delivery systems of care with a variety of adult populations from an empowerment perspective. Prerequisite: Completion of foundation year.

**SOC-WK 5547 Grief and Loss in Social Work Practice**
This course provides a comprehensive study of grief and loss from a professional social work perspective that includes current theories, evidence-based frameworks, and intervention strategies from a strengths-based perspective. The course will address many forms of special losses, such as suicide, homicide, HIV/AIDS, war-related grief, bankruptcy, divorce and other life transitional events that may or may not involve death and dying. Prerequisites: Completion of all Foundation-level courses.

**SOC-WK 5550 Program Evaluation and Management**
This course is designed to train students in evaluation of direct practice, community needs and underserved populations. Students develop a new or enhanced model of service delivery to address needs. Strategic planning, management in theories and grant writing and major components of this course. Prerequisites: Completion of foundation year.

**SOC-WK 5560 Psychopathology: A Competency Based Assessment Model in Social Work Practice**
The DSM will be used in conjunction with a competency-based assessment model that includes an ecological approach and systems theory to determine what biopsychosocial factors have contributed to the client's problem. The multi-axial system become a tool to gather information, that supports the competency-based assessment. Prerequisites: Foundation Coursework Offered: Every Fall

**SOC-WK 5560 Psychopathology: A Competency Based Assessment Model in Social Work Practice**
The DSM will be used in conjunction with a competency-based assessment model that includes an ecological approach and
systems theory to determine what biopsychosocial factors have contributed to the client's problem. The multi-axial system becomes a tool to gather information, that supports the competency-based assessment. Prerequisites: Foundation Coursework
Offered: Every Fall

**SOC-WK 5562 Family Organization and Development**
This course examines developmental and structural theory that supports family-centered social work practice. Within this theory, the course explores how culture and social class shape family values, beliefs and behavior and how these are manifest in family structure as the family responds to developmental tasks in the context of its community. Prerequisites: Completion of Social Work Foundation Sequence

**SOC-WK 5563 Life Span Issues in Developmental Disabilities**
The need for interdisciplinary process in the human services sector, which supports inclusiveness and quality of life of individuals, is covered. The course covers cultural competence, person-centered and community-based application of services for their implications in planning and delivery of services. Cross-listed with Psych 5541 Prerequisites: Completion of Social Work Foundation Sequence

**SOC-WK 5564 Advanced Group Interventions in Social Work**
This course provides both a didactic and experiential introduction to advanced group therapy for social work practice, explores the therapeutic factors, norms and their creation, the role of leader and termination as a group experience. Offered: On Demand

**SOC-WK 5565 Systemic Oppression and Social Justice Advocacy**
This course presents theoretical concepts of oppression, privilege, and social justice advocacy. Students will examine their social principles and their personal experiences. Social work's core values of social practice will be critically analyzed. Prerequisites: Completion of Social Work Foundation Sequence.

**SOC-WK 5566 Family and Community Violence**
Students will consider the sources of interpersonal violence. The causes and forms of community and family violence will be examined in relationship to the impact of individuals, families and communities. Prevention and intervention models will be studied and developed. Prerequisites: Completion of Social Work Foundation Sequence

**SOC-WK 5567 Collaborative Strengths-Based Practice: Multi-System Interventions**
This course examines collaborative models of strengths-based, family-centered social work practice that receive significant funding from SAMHSA & NIH. Two models are explored in depth to compare and contrast program implementation when a model is based in values and philosophy vs. a theory-based model. The theory of change for each model is closely examined, as well as research supporting it and related ethical questions regarding assessment and intervention.

**SOC-WK 5568 School Social Work Practice**
Students will learn the knowledge and skills required for performing roles and functions of school social work in K-12 settings. They will apply social systems and the strengths perspectives within the context of school as organizations interconnected to community environments. Offered: On Demand

**SOC-WK 5568 School Social Work Practice**
Students will learn the knowledge and skills required for performing roles and functions of school social work in K-12 settings. They will apply social systems and the strengths perspectives within the context of school as organizations interconnected to community environments. Offered: On Demand

**SOC-WK 5575 Advanced Generalist Community Practice**
This seminar covers community social work practice at the advanced level addressing values, knowledge and skills essential for community social change. Models of community practice are addressed to facilitate student skill applicant in social planning, community development, and community collaboration strategies. Each model requires knowledge of large systems practice. Prerequisites: Completion of 30 crs or Required Foundation Curriculum Offered: Every Winter on Demand

**SOC-WK 5575 Advanced Generalist Community Practice**
This seminar covers community social work practice at the advanced level addressing values, knowledge and skills essential for community social change. Models of community practice are addressed to facilitate student skill applicant in social planning, community development, and community collaboration strategies. Each model requires knowledge of large systems practice. Prerequisites: Completion of 30 crs or Required Foundation Curriculum Offered: Every Winter on Demand

**SOC-WK 5579 Integration Seminar In Advanced Generalist Practice**
This course, taken in the last semester, serves as a final integration of advanced generalist competencies in direct practice, organization/management, social action/community building and advocacy, research/evaluation and leadership skills. Students
prepare a major project for presentation.

**SOC-WK 5580 Special Topics In Social Work**
These seminars are designed to examine relevant and innovative areas emerging in social work practice which are not available in the regular course offerings. Topics, instructors, and prerequisites are listed in the semester bulletin. Prerequisite: Completion of foundation year.

**SOC-WK 5580 Special Topics In Social Work**
These seminars are designed to examine relevant and innovative areas emerging in social work practice which are not available in the regular course offerings. Topics, instructors, and prerequisites are listed in the semester bulletin. Prerequisite: Completion of foundation year.

**SOC-WK 5590 Readings And Investigations In Social Work**
Under the direction of a faculty member, individual students may pursue an in-depth area of study in generalist social work practice, including a research project of the student's choice. Prerequisite: Permission of Director and Curriculum Committee.

**SOC-WK 5590 Readings And Investigations In Social Work**
Under the direction of a faculty member, individual students may pursue an in-depth area of study in generalist social work practice, including a research project of the student's choice. Prerequisite: Permission of Director and Curriculum Committee.

**Sociology (SOCIOL)**

**SOCIOL 500PS Special Topics Umkc**

**SOCIOL 535 Culture And Personality**

**SOCIOL 545 Theories And Methods In Social Science**

**SOCIOL 5501 Social Theory I**
Examines the development of social theory in Europe up to the beginning of the twentieth century, with a focus on its intellectual precursors of social theory, debates over the nature of society, and controversies over the distinct features of sociology as an emerging academic discipline. The major perspectives covered include the intellectual origins of sociological thought in Great Britain, France, and Germany, and the debates as reflected in the writings of Karl Marx, Emile Durkheim, Max Weber, and Georg Simmel. Prerequisite: undergraduate course in Sociological Theory. Offered: Fall.

**SOCIOL 5501 Social Theory I**
Examines the development of social theory in Europe up to the beginning of the twentieth century, with a focus on its intellectual precursors of social theory, debates over the nature of society, and controversies over the distinct features of sociology as an emerging academic discipline. The major perspectives covered include the intellectual origins of sociological thought in Great Britain, France, and Germany, and the debates as reflected in the writings of Karl Marx, Emile Durkheim, Max Weber, and Georg Simmel. Prerequisite: undergraduate course in Sociological Theory. Offered: Fall.

**SOCIOL 5502 Social Theory II**
Examines the major sociological theories developed during the twentieth century and contemporary debates over the nature of society and the nature of our knowledge about society. Theories to be examined include behaviorism, symbolic interactionism, structural functionalism, phenomenology, conflict theory, postmodernism, those that attempt to integrate social agency and structure, and feminist theory. Prerequisite: SOCIOL 501. Offered: Winter.

**SOCIOL 5502 Social Theory II**
Examines the major sociological theories developed during the twentieth century and contemporary debates over the nature of society and the nature of our knowledge about society. Theories to be examined include behaviorism, symbolic interactionism, structural functionalism, phenomenology, conflict theory, postmodernism, those that attempt to integrate social agency and structure, and feminist theory. Prerequisite: SOCIOL 501. Offered: Winter.

**SOCIOL 5503 Controversies In Contemporary Social Theory And Practice**
This course critically examines central issues in contemporary debates among social theorists over the nature of society and how it should be studied. Offered: Fall

**SOCIOL 5503 Controversies In Contemporary Social Theory And Practice**
This course critically examines central issues in contemporary debates among social theorists over the nature of society and how
it should be studied. Offered: Fall

**SOCIOL 5506** Colloquium: Research And Dissertation Project
A colloquium of Ph.D. students to be taken during the Fall semester of their second year in the program. Students will be guided to develop their dissertation proposal under faculty direction and exchange their experience. The focus of the seminar is on students developing and refining a research agenda that will eventually result in their dissertation proposal. Issues to be addressed include how to state the research question, how to identify and evaluate theoretical perspectives, how to review the literature, how to determine the methodology to be used as well as the options for data collection, and how to put all of this information into a readable and operational research proposal. Note: Fall.

**SOCIOL 5506** Colloquium: Research And Dissertation Project
A colloquium of Ph.D. students to be taken during the Fall semester of their second year in the program. Students will be guided to develop their dissertation proposal under faculty direction and exchange their experience. The focus of the seminar is on students developing and refining a research agenda that will eventually result in their dissertation proposal. Issues to be addressed include how to state the research question, how to identify and evaluate theoretical perspectives, how to review the literature, how to determine the methodology to be used as well as the options for data collection, and how to put all of this information into a readable and operational research proposal. Note: Fall.

**SOCIOL 5510** Sociological Methods I
A survey of methods used by sociologists: selection and formulation of problem, research design, survey research, participant observation, sampling, reliability and validity, use of scales, and data analysis. Crosslisted with CJC 510. Offered: Fall
Prerequisite: SOCIOL 362 or equivalent.

**SOCIOL 5511** Sociological Methods II
Quantitative research is the primary focus of the course; emphasis is placed on problem formulation; research design; sampling procedures; questionnaire construction and interviewing techniques; data collection; problems of scaling, validity and reliability; uses of secondary data sets; data analyses and report writing. Crosslisted with CJC 511. Prerequisite: SOCIOL 362 or equivalent.
Offered: Winter.

**SOCIOL 5512** Qualitative Methodology
Experience in field research and participant observation methodology with focus on the research process including the role of the researcher, data collection and analysis, ethical issues, and the value and limitation of qualitative methodologies. Prerequisite: One semester of research methods.

**SOCIOL 5512** Qualitative Methodology
Experience in field research and participant observation methodology with focus on the research process including the role of the researcher, data collection and analysis, ethical issues, and the value and limitation of qualitative methodologies. Prerequisite: One semester of research methods.

**SOCIOL 5516** Intermediate Statistics
A systematic development of the logic and practice of selected statistical methods used in sociological research. Included are analysis of variance and covariance, regression analysis, multiple contingency, and non-parametric tests. Prerequisite: SOCIOL 363 or equivalent. Crosslisted with CJC 516.

**SOCIOL 5523** Sociology Of Deviance
A seminar devoted to a critical examination of the predominant studies on the subject as well as to a discussion of some of the major forms of deviance in contemporary American society.

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A seminar devoted to a critical examination of the predominant studies on the subject as well as to a discussion of some of the major forms of deviance in contemporary American society.

**SOCIOL 5525** Complex Organizations
Examination of the more important studies and theories concerning organizations such as business, factories, governmental bureaus, churches and universities. The communication-decision process, status system, socialization, legitimation of power, and the interrelationships of formal structures.

**SOCIOL 5525** Complex Organizations
Examination of the more important studies and theories concerning organizations such as business, factories, governmental bureaus, churches and universities. The communication-decision process, status system, socialization, legitimation of power, and the interrelationships of formal structures.
SOCIOL 5530 Anthropology Of Gender
This class explores theories of the social construction of gender in cross-cultural contexts. It will also explore global issues of diversity, local and international politics, the economy and work, education, etc.

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This class explores theories of the social construction of gender in cross-cultural contexts. It will also explore global issues of diversity, local and international politics, the economy and work, education, etc.

SOCIOL 5531 Feminist Theories
This class introduces the major feminist theories and their primary authors over the last 200 years. The class takes both an historical (we begin with two millennia of male-centered theories about women) and a conceptual approach (theories are grouped by common ground) and familiarizes the student with both the historical processes that necessitate feminist theories as well as with the breadth of the historically and currently available scholarship. Graduate students are expected to fulfill all undergraduate requirements at graduate-level quality, including independent research components; in addition, graduate students are required to be prepared to lead class discussions. Prerequisites: Introduction of Women's Studies Offered: Every Winter

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This class introduces the major feminist theories and their primary authors over the last 200 years. The class takes both an historical (we begin with two millennia of male-centered theories about women) and a conceptual approach (theories are grouped by common ground) and familiarizes the student with both the historical processes that necessitate feminist theories as well as with the breadth of the historically and currently available scholarship. Graduate students are expected to fulfill all undergraduate requirements at graduate-level quality, including independent research components; in addition, graduate students are required to be prepared to lead class discussions. Prerequisites: Introduction of Women's Studies Offered: Every Winter

SOCIOL 5534 Spatial Thinking in Social Science
This course will review ways in which social scientists have incorporated the concepts of space, place, and distance into their theories and research. Readings will be drawn from interdisciplinary work in the areas of urban sociology, criminology, health and demography that deal with spatial organization of communities and cities, spatial disparity of health and crimes, and mobility. Generic computer file management skills are required and knowledge of research methods is desirable.

SOCIOL 5537 Anthropology of Religion
This course explores the ways anthropologists have gone about studying religion from the opening decades of the 20th century to present. The course introduces students to the diversity of human religious expression and experience through anthropological literature and to the diversity of anthropological expression especially as it has been revealed in social scientific studies of religious life. The course is designed to generate a critical dialogue about the special role that religion has played in the ongoing anthropological engagement with ""other"" societies and cultures over time.

SOCIOL 5538 Gender, Work And Social Change
This course examines the role of gendered work and consumption in global social change. Drawing from sociological perspectives on gender and work, this course foregrounds a global comparative analysis of societal development and working contexts, including tourism employment, sex work, domestic work, and agricultural, garment, and informatics production. Graduate students are required to carry out independent research or complete work in the area of public sociology and academic-service learning. Students will write a conference paper or journal quality article from this research. Offered: Every Winter

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This course examines the role of gendered work and consumption in global social change. Drawing from sociological perspectives on gender and work, this course foregrounds a global comparative analysis of societal development and working contexts, including tourism employment, sex work, domestic work, and agricultural, garment, and informatics production. Graduate students are required to carry out independent research or complete work in the area of public sociology and academic-service learning. Students will write a conference paper or journal quality article from this research. Offered: Every Winter

SOCIOL 5540 Urban Social Structure
An examination of the social structure of the American city with special reference to the historical development of American cities. Attention will be focused on the role of social institutions as they have changed in relation to urban problems.

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An examination of the social structure of the American city with special reference to the historical development of American cities. Attention will be focused on the role of social institutions as they have changed in relation to urban problems.

SOCIOL 5550 Sociology Of Aging
A seminar in which theoretical orientations, methodologies, and findings from crosscultural and community research in
gerontology are systematically reviewed, within a social change framework.

**SOCIOL 5550 Sociology Of Aging**
A seminar in which theoretical orientations, methodologies, and findings from crosscultural and community research in gerontology are systematically reviewed, within a social change framework.

**SOCIOL 5551 Racism In American Culture**
This course will examine racism in the United States, using a systems perspective. Particular attention will be paid to the "race" concept, and the impact of institutionalized racism on public policy, education, housing and employment. Graduate students will be required to complete additional readings and conduct an in-depth research project by the end of the semester.

**SOCIOL 5554 Sociology Of The Aging Woman**
An exploration of the intersection of gender and aging issues with special attention to cultural images of women, the development of self-concept and identity in mid-life and beyond, caring roles in the family, work and retirement, and health and mental health issues. These issues are examined within the context of social class, race, and ethnicity. Implications for community programs and social policy are considered. Graduate students will be expected to carry out a research project and to lead a class session.

**SOCIOL 5555 Aging And Developmental Disabilities**
This course explores the experience of aging with a developmental disability or mental retardation within the context or normative aging. Among the comparisons made between older persons with and without developmental disabilities are their demographic characteristics, physical and cognitive functioning, role transitions and losses, identities and self-concepts, and family and caregiving issues. Policies, programs, and emerging concepts of best practices are considered within the context of quality of life, ethical, and community inclusion bases.

**SOCIOL 5556 Practicum In Aging And Developmental Disabilities**
Students gain experience in working with and defining issues of older persons with developmental disabilities through placements in sheltered workshops, senior centers, residential group homes, and other community-based programs. Students must be simultaneously enrolled in SOCIOL 556.

**SOCIOL 5557 Cultures Of The African Diaspora**
The course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion.

**SOCIOL 5558 Sociology Of Death And Dying**
This course examines attitudes, behaviors, and institutions related to death and dying in contemporary American society. Topics include the meanings of death in American society, social settings for dying, interaction with the dying, customs and practices surrounding death, role transitions of survivors, and suicide. Special attention is given to issues of aging and dying.

**SOCIOL 5559 Sociology Of Death And Dying**
This course examines attitudes, behaviors, and institutions related to death and dying in contemporary American society. Topics include the meanings of death in American society, social settings for dying, interaction with the dying, customs and practices surrounding death, role transitions of survivors, and suicide. Special attention is given to issues of aging and dying.
SOCIOL 5573 Latin American Immigrants and Refugees in the U.S.
This course is the study of history, culture and societies of immigrants and US citizens of Latin American heritage living in the U.S.

SOCIOL 5580 Special Studies In Sociology
An opportunity to explore in depth topics not included in usual course offerings. One or more topics will be announced in advance of registration.

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An opportunity to explore in depth topics not included in usual course offerings. One or more topics will be announced in advance of registration.

SOCIOL 5580A Special Studies In Sociology

SOCIOL 5580A Special Studies In Sociology

SOCIOL 5580AAB Special Studies In Sociology

SOCIOL 5580AC Special Studies In Sociology
An opportunity to explore in depth topics not included in usual course offerings. One or more topics will be announced in advance of registration.

SOCIOL 5580AG Special Studies In Sociology
An opportunity to explore in depth topics not included in usual course offerings. One or more topics will be announced in advance of registration.

SOCIOL 5580AR Special Studies In Sociology

SOCIOL 5580B Special Studies In Sociology

SOCIOL 5580B Special Studies In Sociology

SOCIOL 5580BDA Special Studies In Sociology

SOCIOL 5580BF Special Studies In Sociology

SOCIOL 5580C Special Studies In Sociology

SOCIOL 5580C Special Studies In Sociology

SOCIOL 5580CG Special Studies In Sociology

SOCIOL 5580CT Special Studies In Sociology

SOCIOL 5580D Special Studies In Sociology

SOCIOL 5580D Special Studies In Sociology
SOCIOLOGY 5580DY Special Studies In Sociology

SOCIOLOGY 5580E Special Studies In Sociology

SOCIOLOGY 5580E Special Studies In Sociology

SOCIOLOGY 5580GF Special Studies In Sociology

SOCIOLOGY 5580GR Special Studies In Sociology

SOCIOLOGY 5580J Special Studies In Sociology

SOCIOLOGY 5580J Special Studies In Sociology

SOCIOLOGY 5580LY Special Topics in Sociology

SOCIOLOGY 5580R Special Studies In Sociology

SOCIOLOGY 5580R Special Studies In Sociology

SOCIOLOGY 5580RDY Special Studies in Sociology

SOCIOLOGY 5580RG Special Studies in Sociology

SOCIOLOGY 5580RGE Special Studies Sociology

SOCIOLOGY 5580RH Spec Studies in Sociology

SOCIOLOGY 5580RJ Spec Studies in Sociology

SOCIOLOGY 5580RO Special Studies Sociology

SOCIOLOGY 5580RP Special Studies in Sociology

SOCIOLOGY 5580RS Special Studies in Sociology

SOCIOLOGY 5580RSM Special Studies in Sociology

SOCIOLOGY 5580RUA Special Studies In Sociology
SOCIOL 5580RV Special Studies In Sociology

SOCIOL 5580RVRB Special Topics In Sociology

SOCIOL 5580SSR Special Topics In Sociology

SOCIOL 5580ST Special Topics In Sociology

SOCIOL 5580WF Special Studies In Sociology

SOCIOL 5595 Directed Research Experience
Research project supervised by faculty.

SOCIOL 5595 Directed Research Experience
Research project supervised by faculty.

SOCIOL 5597 Independent Readings
Intensive readings in an area selected by the student with prior consultation with the instructor.

SOCIOL 5597 Independent Readings
Intensive readings in an area selected by the student with prior consultation with the instructor.

SOCIOL 5599 Thesis And Research
Directed specialized research. Before writing a thesis, the student must clear the topic and research design with the Supervisory Committee. The course also involves the writing of the thesis.

SOCIOL 5599 Thesis And Research
Directed specialized research. Before writing a thesis, the student must clear the topic and research design with the Supervisory Committee. The course also involves the writing of the thesis.

SOCIOL 5699 Dissertation Research
Individual directed research leading to preparation and completion of doctoral dissertation.

SOCIOL 5699 Dissertation Research
Individual directed research leading to preparation and completion of doctoral dissertation.

SOCIOL 5899 Required Graduate Enrollment

SOCIOL 5899 Required Graduate Enrollment

SOCIOL 590 Directed Research Experience
Research project supervised by faculty.

SOCIOL 601 Controversies In Contemporary Social Theory And Practice
This course will acquaint students with the central ideas and controversies in modern social theory by engaging various social theories to explain and examine selected concepts (e.g., gender, the state, the body, crime, aging, social movements). Topics of concern include formation of concepts, methodological implications of theories, and the relation of theory to political practice.

SOCIOL 603 Controversies In Sociological Research
This course will acquaint students with the central ideas and controversies in social research, with an emphasis on the uses of qualitative methods for evaluation research. The course will focus on the methodologies and tools used for evaluation and the
political implications of social research.

**Spanish (SPANISH)**

**SPANISH 5514** Spanish Literature
Selected readings in Spanish narrative, poetry, drama and philosophical essay from the beginning of the 20th Century to the Avant-Garde movements in the 1930's.

**SPANISH 5516** Medieval Spanish Literature
A study of selected medieval masterpieces in their Old Spanish form, with special emphasis on Romances, the Cantar de Mio Cid La Celestina, El Corbacho, Libro del buen amor, etc. Includes a short history of the Spanish language.

**SPANISH 5516** Medieval Spanish Literature
A study of selected medieval masterpieces in their Old Spanish form, with special emphasis on Romances, the Cantar de Mio Cid La Celestina, El Corbacho, Libro del buen amor, etc. Includes a short history of the Spanish language.

**SPANISH 5519** Federico Garcia Lorca
A study in depth of the poetry and drama of Federico Garcia Lorca.

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A study in depth of the poetry and drama of Federico Garcia Lorca.

**SPANISH 5520** Cervantes' Don Quixote, Part I
An intensive reading of the first part of Cervantes' novel, Don Quixote.

**SPANISH 5520** Cervantes' Don Quixote, Part I
An intensive reading of the first part of Cervantes' novel, Don Quixote.

**SPANISH 5521** Cervantes' Don Quixote, Part II
An intensive reading of the second part of Cervantes' novel, Don Quixote. Part One is not a prerequisite. Offered: On Demand

**SPANISH 5521** Cervantes' Don Quixote, Part II
An intensive reading of the second part of Cervantes' novel, Don Quixote. Part One is not a prerequisite. Offered: On Demand

**SPANISH 5526** Golden Age Drama
A study in depth of the creation of national theater by Lope de Vega and his followers.

**SPANISH 5526** Golden Age Drama
A study in depth of the creation of national theater by Lope de Vega and his followers.

**SPANISH 5527** Pre-Columbian and Spanish Colonial Literature
A study of pre-Columbian works in drama, narrative, and poetry (Popol Vuh, Apu-Ollantay, Incan and Aztec poetry) along with a survey of Spanish-American colonial literature.

**SPANISH 5527** Pre-Columbian and Spanish Colonial Literature
A study of pre-Columbian works in drama, narrative, and poetry (Popol Vuh, Apu-Ollantay, Incan and Aztec poetry) along with a survey of Spanish-American colonial literature.

**SPANISH 5528** Contemporary Spanish Poetry
A comprehensive and intensive study of 20th-century Spanish poetry. The poets and their poetry will be studied in the light of literary movements, foreign influences, political tendencies and philosophical ideas.

**SPANISH 5528** Contemporary Spanish Poetry
A comprehensive and intensive study of 20th-century Spanish poetry. The poets and their poetry will be studied in the light of literary movements, foreign influences, political tendencies and philosophical ideas.

**SPANISH 5529** Novel of the Mexican Revolution
The revolution as the principal focus of 20th-century Mexican fiction. The course will examine both the evolving understanding of the event/process and the sophistication of narrative technique employed in its presentation. Among the writers to be studied are Azuela, Guzman, Lopez y Fuentes, Yanez, Revueltas, Rulfo and Fuentes.

**SPANISH 5529** Novel of the Mexican Revolution
The revolution as the principal focus of 20th-century Mexican fiction. The course will examine both the evolving understanding
of the event/process and the sophistication of narrative technique employed in its presentation. Among the writers to be studied are Azuela, Guzman, Lopez y Fuentes, Yanez, Revueltas, Rulfo and Fuentes.

SPANISH 5530 Spanish Mysticism
An examination of the development of mysticism in Oriental and Occidental civilizations, with emphasis on the great periods of mystic experience as reflected in the literary production of the Spanish Golden Age. Readings could include the works of Fray Luis de Granada, Fray Luis de Leon, Saint John of the Cross and Saint Teresa of Avila. Offered: On demand

SPANISH 5530 Spanish Mysticism
An examination of the development of mysticism in Oriental and Occidental civilizations, with emphasis on the great periods of mystic experience as reflected in the literary production of the Spanish Golden Age. Readings could include the works of Fray Luis de Granada, Fray Luis de Leon, Saint John of the Cross and Saint Teresa of Avila. Offered: On demand

SPANISH 5531 The Golden Age Novel
A study of major prose works of the Golden Age. Possible topics include authorship, innovative narrative techniques, textual strategies and metafiction issues. Readings could include works by Alfonso Martinez de Toledo, Diego de San Pedro, Fernando de Rojas, Francisco Delicado, Cervantes, and Lope de Vega. Offered: On demand

SPANISH 5531 The Golden Age Novel
A study of major prose works of the Golden Age. Possible topics include authorship, innovative narrative techniques, textual strategies and metafiction issues. Readings could include works by Alfonso Martinez de Toledo, Diego de San Pedro, Fernando de Rojas, Francisco Delicado, Cervantes, and Lope de Vega. Offered: On demand

SPANISH 5532 Pastoral Literature
A study of the development of pastoral literature during the Spanish Golden Age. Possible texts: Juan del Encina's Eclogues, Montemayor's Los siete libros de la Diana and Cervantes' Galatea. These works will be examined within their historical and cultural context. Offered: On demand

SPANISH 5532 Pastoral Literature
A study of the development of pastoral literature during the Spanish Golden Age. Possible texts: Juan del Encina's Eclogues, Montemayor's Los siete libros de la Diana and Cervantes' Galatea. These works will be examined within their historical and cultural context. Offered: On demand

SPANISH 5533 Cervantes' Exemplary Novels
A study of Cervantes' Exemplary Novels within the context of 17th Century Spain. Attention will be paid to interpretive possibilities and how knowledge of historical contexts might influence readings of this rich and varied cultural output.

SPANISH 5533 Cervantes' Exemplary Novels
A study of Cervantes' Exemplary Novels within the context of 17th Century Spain. Attention will be paid to interpretive possibilities and how knowledge of historical contexts might influence readings of this rich and varied cultural output.

SPANISH 5534 The Picaresque Novel
A study of the development of picaresque fiction during the Spanish Golden Age. The course deals with novelists principally active during the Baroque period such as Mateo Aleman, Francisco Lopez de Ubeda, Miguel de Cervantes, and Francisco de Quevedo.

SPANISH 5534 The Picaresque Novel
A study of the development of picaresque fiction during the Spanish Golden Age. The course deals with novelists principally active during the Baroque period such as Mateo Aleman, Francisco Lopez de Ubeda, Miguel de Cervantes, and Francisco de Quevedo.

SPANISH 5535 Peninsular Poetry
This course is a survey of poetics and poetry in Spain from the Reconquest to the present, with emphasis on sociohistorical contexts and movements. It examines theoretical and methodological approaches to literary analysis and also provides practical experience in exploring poetic texts. Students will analyze a wide spectrum of poems, while discussing the cultural philosophical, linguistic, political and ethical considerations that surround the reception of a text.

SPANISH 5536 Spain's Transition to Democracy: Literature and Film
This course reviews the cultural production between the death of Francisco Franco in 1975 and the entrance in the European Union, in film, literature and music, within its historical and political context.
SPANISH 5550 Modern Classics of Latin American Literature
The goal of the course is to familiarize the student with the principal Latin American writers of the modern period. The focus will be dual: the progressive sophistication of literary technique, and the refinement of social conscience. Among the authors to be studied are: Asturias, Borges, Carpentier, Cortazar, Donoso, Fuentes, Garcia Marques, Paz, Rulfo, and Vargas Llosa. Also offered as SPANISH 450.

SPANISH 5550 Modern Classics of Latin American Literature
The goal of the course is to familiarize the student with the principal Latin American writers of the modern period. The focus will be dual: the progressive sophistication of literary technique, and the refinement of social conscience. Among the authors to be studied are: Asturias, Borges, Carpentier, Cortazar, Donoso, Fuentes, Garcia Marques, Paz, Rulfo, and Vargas Llosa. Also offered as SPANISH 450.

SPANISH 5553 Spanish-American Short Story
A study of Spanish-American short stories from Romanticism to the present. On demand.

SPANISH 5553 Spanish-American Short Story
A study of Spanish-American short stories from Romanticism to the present. On demand.

SPANISH 5580 Special Topics
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor. On demand.

SPANISH 5580 Special Topics
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor. On demand.

SPANISH 5580D Special Topics

SPANISH 5590 Directed Studies in Spanish & Latin American Literature
Intensive readings in a field or literary figure to be selected by the student in consultation with the instructor. Available by permission of graduate advisor or instructor, as appropriate, only when student cannot take regularly scheduled courses.

SPANISH 899 Required Graduate Enrollment

Statistics (STAT)
STAT 5501 Statistical Design Of Experiments
This course is designed to present a variety of experimental design techniques to students with moderate mathematical and statistical background. The course includes three major components: efficient factorial designs, linear and quadratic process optimization of the location parameter, and variability reduction. Students will be trained to use the SPSS statistical software package. Prerequisite: STAT 436 or consent of instructor.

STAT 5501 Statistical Design Of Experiments
This course is designed to present a variety of experimental design techniques to students with moderate mathematical and statistical background. The course includes three major components: efficient factorial designs, linear and quadratic process optimization of the location parameter, and variability reduction. Students will be trained to use the SPSS statistical software package. Prerequisite: STAT 436 or consent of instructor.

STAT 5537 Mathematical Statistics I
Probability theory, distribution functions, sampling, statistical inference, topics in advanced applied statistics. Prerequisite: Math 402 or consent of the instructor. Note: Continued in STAT 5547.

STAT 5547 Mathematical Statistics II
Continuation of STAT 5537.

STAT 5551 Applied Statistical Analysis
Methods for analyzing data from experiments and observational studies; design-based and model-based inferences; model assessment; ANOVA; power analysis; SAS procedures. Prerequisites: STAT441 or consent of instructor.

STAT 5561 Time Series Analysis
This course is intended to present the basis knowledge (including models, methods and concepts) of time series analysis to
students with a good background in intermediate mathematical statistics. Some elementary knowledge of basic linear regression analysis would be helpful but not necessary. The presentation will be balanced between theory and data analysis, with sufficient theory to understand the basis of methods and a broad variety of models and many real data examples. Case studies will be drawn from business and economics, network traffic and meteorology, and data will be analyzed by students using existing computer programs (SAS, Minitab and R). Students are also expected to understand proper use and limits of time series models. Prerequisites: STAT 441 or consent of instructor.

STAT 5565 Regression Analysis
Simple linear regression; multiple linear regression; correlation analysis; model selections; checking assumptions; regression diagnostics; combating multi-collinearity; nonlinear regression. Prerequisites: STAT 441 or consent of instructor.

STAT 5572 Multivariate Analysis
Random vectors; multivariate normal distributions; Hotelling's T-square distribution; Wishart distribution; inferences on one mean vector; MANOVA; inferences on covariance matrices; profile analysis. Prerequisites: MATH 420 and STAT 441 or consent of instructor.

STAT 5576 Probability
Existence and extension of measure, random variable, expectation and its properties, types of convergence, law of large numbers, weak convergence, central limit theorem, and martingale. Prerequisites: STAT 436 and MATH 5513

STAT 5578 Advanced Mathematical Statistics
Exponential and location families, principles of data reduction, asymptotic distributions, advanced theory of estimation and hypothesis testing. Prerequisite: STAT 5547

STAT 5588 Theory of Linear Model
This course covers vector space, full rank linear model, general inverse, estimation under linear constraints interval estimation, hypothesis testing, distributions of quadratic forms, general distribution theory, estimability, Gauss-Markov theorem, Best Linear Unbiased Estimation (BLUE), regression on dummy variables, estimation of variance components, Scheffe and Turkey intervals, and ono-full rank linear model. Prerequisites: Math 420, Stat 5537, and Stat 5565

STAT 5590 Special Topics
Selected topics in various fields of mathematics. May be repeated for credit when the topic varies. Prerequisite: Consent of instructor.

Theatre (THEATRE)
THEATRE 5500RA Theatre Collaboration
A course for M.F.A. students exploring the collaboration/communication process in preparing a production. Must be elected by all students assigned to design, direct, technical direct or stage manage within the current or the following semester. Maximum of 8 hours applicable towards degree.

THEATRE 5501R Voice Training
(A,B,C,D) Training for the speaking and singing voice, development of skills in vocal dynamics, physical control, and relaxation for the actor, dialects and verse structure. Four semesters required for acting emphasis.

THEATRE 5506RR French Drama And Theatre
Study of significant plays and production methods in France from medieval times to the present. Particular emphasis will be given to the plays of Moliere, Racine, and Corneille, and to internationally renowned contemporary directors.

THEATRE 5507 19Th-Century Continental Theatre
Production of significant French, German, Russian, Spanish, and Scandinavian plays and playwriting of the 19th century. Particular emphasis will be given to plays representative of romanticism, realism, naturalism, fin-de-siecle decadence, and intensive study of production history.

THEATRE 5507 19Th-Century Continental Theatre
Production of significant French, German, Russian, Spanish, and Scandinavian plays and playwriting of the 19th century. Particular emphasis will be given to plays representative of romanticism, realism, naturalism, fin-de-siecle decadence, and intensive study of production history.

THEATRE 5508 20Th-Century Continental Theatre
Study of the production of significant plays of Continental Europe from Strindberg to the present. Dramatic literature will be related to artistic currents such as expressionism, surrealism, the absurd, and where applicable, to political currents.
THEATRE 5508 20Th-Century Continental Theatre
Study of the production of significant plays of Continental Europe from Strindberg to the present. Dramatic literature will be related to artistic currents such as expressionism, surrealism, the absurd, and where applicable, to political currents.

THEATRE 5509 Russian Drama And Theatre
Study of the production of Russian and Soviet plays with reference to the development of theatre art from the Christianization of Russia to contemporary post-Soviet drama.

THEATRE 5509 Russian Drama And Theatre
Study of the production of Russian and Soviet plays with reference to the development of theatre art from the Christianization of Russia to contemporary post-Soviet drama.

THEATRE 5510 History Of The American Theatre I
An exploration of the trends in and the development of the American theatre from Colonial times to 1900.

THEATRE 5510 History Of The American Theatre I
An exploration of the trends in and the development of the American theatre from Colonial times to 1900.

THEATRE 5511 History Of The American Theatre II
An exploration of the trends in and the development of the American theatre for 1900 to the present.

THEATRE 5511 History Of The American Theatre II
An exploration of the trends in and the development of the American theatre for 1900 to the present.

THEATRE 5512R History Of The English Stage I
The English stage and its arts, crafts and literature from the medieval cycles through the Restoration.

THEATRE 5513 History Of The English Stage II
Development of English and Irish theatre art and dramatic literature from the 18th century to the present.

THEATRE 5513 History Of The English Stage II
Development of English and Irish theatre art and dramatic literature from the 18th century to the present.

THEATRE 5514 History of Design And Technology I
The study of period style and scenic, costume, lighting, and technical production practices from the ancient world through the 17th century. The course will emphasize the application of research toward the presentation of period plays and contemporary production.

THEATRE 5514 History of Design And Technology I
The study of period style and scenic, costume, lighting, and technical production practices from the ancient world through the 17th century. The course will emphasize the application of research toward the presentation of period plays and contemporary production.

THEATRE 5515R History of Design And Technology II
The study of period style and scenic, costume, lighting, and technical production practices from the 18th century to the present. The course will emphasize the application of research toward the presentation of period plays and contemporary production.

THEATRE 5515R History of Design And Technology II
The study of period style and scenic, costume, lighting, and technical production practices from the 18th century to the present. The course will emphasize the application of research toward the presentation of period plays and contemporary production.

THEATRE 5516A Technical Production for The Practitioner
The course is an in-depth review of technologies in scenery, lighting and stage operations, expansion of that knowledge, and application of it to the individual class member's particular theatre. Classroom material is augmented by hands-on experience in a controlled laboratory situation. Students should have a prerequisite of a basic technical theatre course or considerable practical experience. This course can be repeated for credit.

THEATRE 5516B Technical Production for The Practitioner
See course description for THEATER 5516A.

THEATRE 5517A Professional Stage Management I
A functional analysis of the responsibilities of the professional stage manager. Requires the student to be an assistant stage manager on a University or KC Rep production. Offered: Every fall.

THEATRE 5517B Professional Stage Management II
Practical course in stage management. Requires student to stage-manage or assistant stage-manage a production. Prerequisite:
THEATER 5517A. Offered: Every Winter/Spring.

THEATRE 5517C Equity Assistant Stage Management
This course develops a skill set for professional assistant stage managers. Class will discuss duties and paper-work and how to supplement the work of the stage manager. Offered: Every Other Fall.

THEATRE 5517D Opera Stage Management
Class covers duties of the opera stage manager, including how to follow an opera score. Offered: Every Other Fall.

THEATRE 5517E Union Contracts for Actors and Stage Managers
Students study and discuss all the rules in the Equity Rule Book. Offered: Every Winter/Spring.

THEATRE 5517F Professional Production Management in Theatre
This course is a seminar on the duties, planning, negotiations, and problem solving techniques of the professional theatre production manager. Prerequisite: Theater 5517A. Offered: Every Winter/Spring.

THEATRE 5520 Individual Performance Studies
(A,B,C) Private instruction for the advanced student. Prerequisite: Permission of the faculty member with whom the student will be studying.

THEATRE 5520 Individual Performance Studies
(A,B,C) Private instruction for the advanced student. Prerequisite: Permission of the faculty member with whom the student will be studying.

THEATRE 5520L Individual Performance Studies

THEATRE 5521A Professional Sound Design
Professional Sound Design is a series of four courses constructed to develop the designer's skills from research and initial sound collection, into interpretation, collaboration and idea development, concluding with the production of finished designs for the MFA productions. Each section deals with problems of increasing complexity beginning with "found" design material for early production and leading to indigenous designs created and layered for complex production support. The course may be taken once or twice for non-sound designers with the full cycle being required for the sound design emphasis.

THEATRE 5521B Professional Sound Design

THEATRE 5521C Professional Sound Design
Professional Sound Design is a series of four courses constructed to develop the designer's skills from research and initial sound collection, into interpretation, collaboration and idea development, concluding with the production of finished designs for the MFA productions. Each section deals with problems of increasing complexity beginning with "found" design material for early production and leading to indigenous designs created and layered for complex production support. The course may be taken once or twice for non-sound designers with the full cycle being required for the sound design emphasis.

THEATRE 5521D Professional Sound Design
Professional Sound Design is a series of four courses constructed to develop the designer's skills from research and initial sound collection, into interpretation, collaboration and idea development, concluding with the production of finished designs for the MFA productions. Each section deals with problems of increasing complexity beginning with "found" design material for early production and leading to indigenous designs created and layered for complex production support. The course may be taken once or twice for non-sound designers with the full cycle being required for the sound design emphasis.

THEATRE 5530 Drafting for The Theatre
Practical laboratory course in drafting for the theatre encompassing floor plans, sections, designer's evaluations, front and rear elevations, working drawings, and problems in communicating design ideas. Fall semester.

THEATRE 5530 Drafting for The Theatre
Practical laboratory course in drafting for the theatre encompassing floor plans, sections, designer's evaluations, front and rear elevations, working drawings, and problems in communicating design ideas. Fall semester.

THEATRE 5531R Rendering Techniques for the Theatre Designer II
Continuation of Rendering Techniques with the introduction of color, pastels, watercolor and gouache. Skills are applied in
developing projects for design in the theatre.

THEATRE 5532 Professional Costume Design
( A, B, C, D ) The courses in Professional Costume Design are intended to develop the costume designer's skills in research, rendering and drawing. Each section will deal with specific problems of design, such as period, line, silhouette, color and texture. Specific problems in design from realistic to stylized productions will be worked on by the students. The course may be taken once or twice by non-costume designers with the full cycle being required for costume emphasis.

THEATRE 5532 Professional Costume Design
( A, B, C, D ) The courses in Professional Costume Design are intended to develop the costume designer's skills in research, rendering and drawing. Each section will deal with specific problems of design, such as period, line, silhouette, color and texture. Specific problems in design from realistic to stylized productions will be worked on by the students. The course may be taken once or twice by non-costume designers with the full cycle being required for costume emphasis.

THEATRE 5534 Costume Construction I
(A,B,C) Research and methodology into one or more of the following areas of costume construction for the stage: period pattern and tailoring adaptation, work with non-woven materials, and the cutting and finishing of costumes for the stage. May be repeated up to six hours with content change and permission of instructor.

THEATRE 5534 Costume Construction I
(A,B,C) Research and methodology into one or more of the following areas of costume construction for the stage: period pattern and tailoring adaptation, work with non-woven materials, and the cutting and finishing of costumes for the stage. May be repeated up to six hours with content change and permission of instructor.

THEATRE 5535 Technical Studies In Costuming And Makeup
(A,B,C) Concentration in one or more of the arts and crafts necessary to costume design. Areas to be chosen from include: fabric dyeing and painting, millinery, wig design and construction, latex prosthetic, and decorative accessories for the stage. May be repeated up to six hours with content change and permission of instructor.

THEATRE 5535 Technical Studies In Costuming And Makeup
(A,B,C) Concentration in one or more of the arts and crafts necessary to costume design. Areas to be chosen from include: fabric dyeing and painting, millinery, wig design and construction, latex prosthetic, and decorative accessories for the stage. May be repeated up to six hours with content change and permission of instructor.

THEATRE 5536 Professional Scene Design
(A,B,C,D) Professional Scene Design is a series of courses constructed to develop the designer's skills from research and initial sketches to finished renderings, models and working drawings. Each successive section deals with problems of increasing complexity beginning with one-set realistic productions through unit-settings, stylization and multiple setting problems. The course may be taken once or twice for non-set designers with the full cycle being required for the scene design emphasis.

THEATRE 5536 Professional Scene Design
(A,B,C,D) Professional Scene Design is a series of courses constructed to develop the designer's skills from research and initial sketches to finished renderings, models and working drawings. Each successive section deals with problems of increasing complexity beginning with one-set realistic productions through unit-settings, stylization and multiple setting problems. The course may be taken once or twice for non-set designers with the full cycle being required for the scene design emphasis.

THEATRE 5538 Scene Painting
A practicum course in scene painting techniques and execution. Introduction to painting equipment and supplies, priming and preparation of surfaces and materials, standard techniques for painting ornament.

THEATRE 5538 Scene Painting
A practicum course in scene painting techniques and execution. Introduction to painting equipment and supplies, priming and preparation of surfaces and materials, standard techniques for painting ornament.

THEATRE 5539 Scene Painting II
A practicum course in scene painting techniques with emphasis on painting interior drops, exterior landscapes and three-dimensional pieces.

THEATRE 5539 Scene Painting II
A practicum course in scene painting techniques with emphasis on painting interior drops, exterior landscapes and three-dimensional pieces.
THEATRE 5540 Pattern Drafting And Cutting
Theory and laboratory study of the techniques and methods employed in drafting patterns for the professional stage.

THEATRE 5540 Pattern Drafting And Cutting
Theory and laboratory study of the techniques and methods employed in drafting patterns for the professional stage.

THEATRE 5545 Professional Acting Techniques I
Theatre games, exercises, mask work, and some scene study to develop the first year acting/directing class into a training ensemble, instill a clear and uniform vocabulary, heighten awareness, and begin concentrated skill work. The semester will culminate in a class project.

THEATRE 5545 Professional Acting Techniques I
Theatre games, exercises, mask work, and some scene study to develop the first year acting/directing class into a training ensemble, instill a clear and uniform vocabulary, heighten awareness, and begin concentrated skill work. The semester will culminate in a class project.

THEATRE 5546 Professional Acting Techniques II
Continuation of THEATER 5545 with emphasis on the application of the first semester's work through scene study of contemporary plays and monologues.

THEATRE 5546 Professional Acting Techniques II
Continuation of THEATER 5545 with emphasis on the application of the first semester's work through scene study of contemporary plays and monologues.

THEATRE 5547 Professional Acting Techniques III
Concentration on non-naturalistic styles. Work on scenes from Shakespeare and other classical playwrights.

THEATRE 5547 Professional Acting Techniques III
Concentration on non-naturalistic styles. Work on scenes from Shakespeare and other classical playwrights.

THEATRE 5548 Professional Acting Techniques Iv
Work on audition material and further scene work dealing with specific individual acting problems.

THEATRE 5548 Professional Acting Techniques Iv
Work on audition material and further scene work dealing with specific individual acting problems.

THEATRE 5549 Master Class In Acting
(A,B,C,D) Class in advanced studies in acting. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required. Required for third year graduate acting students in the fall semester and may be repeated subsequently as elective.

THEATRE 5549 Master Class In Acting
(A,B,C,D) Class in advanced studies in acting. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required. Required for third year graduate acting students in the fall semester and may be repeated subsequently as elective.

THEATRE 5551 Rendering Techniques for the Theatre Designer III
Developing techniques for rendering in realistic settings: interiors, landscapes, fabric and furnishings.

THEATRE 5551 Rendering Techniques for the Theatre Designer III
Developing techniques for rendering in realistic settings: interiors, landscapes, fabric and furnishings.

THEATRE 5552R Rendering Techniques for the Theatre Designer Iv
Developing techniques for rendering in non-realistic styles with the emphasis on imaginative designs, light and air, created textures, etc.

THEATRE 5557 Theatre History I
Development of theatre art—including dramatic literature, staging, and performance styles—from the beginning through the 17th century. This course also looks at Asian theatre forms. Students read approximately 20 plays. Prerequisite: Graduate Status
Offered: Every Fall
THEATRE 5557 Theatre History I
Development of theatre art-including dramatic literature, staging, and performance styles-from the beginning through the 17th century. This course also looks at Asian theatre forms. Students read approximately 20 plays. Prerequisite: Graduate Status Offered: Every Fall

THEATRE 5560 Theatre History II
Development of western theatre art-including dramatic literature, staging, and performance styles-from the 18th century to the present. Students will read approximately 24 plays Prerequisite: Graduate status Offered: Every winter

THEATRE 5562 Actor Practicum
A contemporary scene study class for actors. Actors test their acquired process skills with major emphasis placed on characterization.

THEATRE 5563 Text Analysis I
Linear analysis of selected prose dramas with concentration on character delineation, images and motivation for actors and directors.

THEATRE 5564 Text Analysis II
Continuation of THEATER 5563 with emphasis on verse plays. Selected playwrights from the Greek and Elizabethan periods will be included along with modern verse dramatists.

THEATRE 5565 Introduction To Professional Directing
The first part of the class is devoted to an intensive study of various and diverse concepts related to the dramatic experience by dramatists, critics, and directors. The class also examines current production methods and practices for today's functioning professional director. Systems related to stage management and actors are investigated.

THEATRE 5567 Professional Directing Practicum
This class will move from concept to production. Work will revolve around the presentation of production concept statements in which the director will select, organize and articulate the theatrical substance in support of his or her chosen concept. Intensive analysis will lead to the development of an image/metaphor for production. Term will include presentation of a full book justifying concept choices for scenic, costume, music and dance, and, finally, full production.

THEATRE 5568 Seminar In Dramaturgy
Critical analysis of dramatic structure and techniques, with special reference to modern and contemporary drama.
THEATRE 5568 Seminar In Dramaturgy  
Critical analysis of dramatic structure and techniques, with special reference to modern and contemporary drama.

THEATRE 5569 Master Class in Directing  
(A,B,C,D) Class in advanced studies in directing. May be repeated for credit up to eight hours as new material and guest artist change. Permission of instructor or head of area required. Graduate students elect THEATER 5569.

THEATRE 5570 Professional Lighting Design  
(A, B, C, D) Professional Lighting Design is a series of courses concerned with the study of light as a design element. Projects to implement design theory are primarily selected from the areas of dramatic, musical and opera theatre, and dance. Emphasis is on the design process with each successive section dealing with problems of increasing complexity. Areas of study and projects are chosen on the basis of individual levels of development. When elected by non-lighting designers the course may be elected for a maximum of two semesters.

THEATRE 5571A Professional Projections Design I  
This course examines the techniques of theatrical projection design. Focus will be on the manipulation of projected images, and the fundamental use and control of automated projectors. This hands-on laboratory class will instruct students in the use of state of the art projection equipment and control consoles.

THEATRE 5571B Professional Projections Design II  
This class will teach students how to design projections. Students will learn the practical applications of projection design as well as the theoretical and critical thinking necessary to successfully complete a projection design assignment. This class will culminate with the presentation of an assigned projection design or a realized projection design. Prerequisites: Successful completion of Theater 5571A.

THEATRE 5572 Stage Lighting Equipment  
A comprehensive study of contemporary technical equipment and its usage to actualize a lighting design. Areas of emphasis include instruments, color and color theory, lighting control systems, projection, and optical special effects.

THEATRE 5573 Professional Technical Production  
Detailed study and experimentation with recent scenic materials, scenery construction, rigging systems, use of metal and special effects.

THEATRE 5574 Theatre Regulations, Laws and Safety  
Survey of fire, city and Equity codes, and insurance, liability, health rules and regulations related to theater operation. Union and legal contracts, philosophy and relations with theatre facilities and operations.
THEATRE 5575R Property Construction
Construction techniques and materials used to make and modify set and hand properties and set dressing.

THEATRE 5577 Advanced Materials
(A,B,C,D) The theatre technician and designer are dependent on a wide range of materials in the creation of their art. Each semester the student will pursue detailed study of a material area (i.e., wood, metal, plastics, textiles), the processes of its usage and its related process-products (i.e., adhesives, paints, dyes, etc.). Field trips and hands-on laboratory work are integral to the course.

THEATRE 5577 Advanced Materials
(A,B,C,D) The theatre technician and designer are dependent on a wide range of materials in the creation of their art. Each semester the student will pursue detailed study of a material area (i.e., wood, metal, plastics, textiles), the processes of its usage and its related process-products (i.e., adhesives, paints, dyes, etc.). Field trips and hands-on laboratory work are integral to the course.

THEATRE 5578 Professional Theatre Administration
Theories, problems and techniques preparing the student for effective interaction with professional theater administration, offering a foundation for potential theatre administrators as well as enrichment for students of directing, design, technical and stage management.

THEATRE 5578 Professional Theatre Administration
Theories, problems and techniques preparing the student for effective interaction with professional theater administration, offering a foundation for potential theatre administrators as well as enrichment for students of directing, design, technical and stage management.

THEATRE 5579R Master Class In Design
(A,B,C,D) Class in advanced studies in design. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required. Graduate students elect THEATER 5579.

THEATRE 5580R Graduate Technical Student Seminar
(A,B,C,D,E,F) Required in every semester for Design/Tech M.F.A. candidates choosing a technology emphasis. This continuing seminar course serves as a forum for all graduate technical students to analyze and discuss problems and solutions on current academic and KCRep productions. The course develops collaborative skills through the sharing of ideas and experiences. In addition, topics of general interest to the technician will be studied through guest lecturers and/or individual projects prepared by the faculty and students and presented to the class.

THEATRE 5583 Seminar on Technical Production Management
Seminar involving shop organization, scheduling, purchasing, lending and borrowing, rentals, personnel, job description, organizing structure, etc. Emphasis upon organization and techniques for repertory theatre operation.

THEATRE 5583 Seminar on Technical Production Management
Seminar involving shop organization, scheduling, purchasing, lending and borrowing, rentals, personnel, job description, organizing structure, etc. Emphasis upon organization and techniques for repertory theatre operation.

THEATRE 5584 Master Class In Technology
(A,B,C,D) Class in advanced studies in technology. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required.

THEATRE 5584 Master Class In Technology
(A,B,C,D) Class in advanced studies in technology. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required.

THEATRE 5585 Advanced Technical Drafting
An intensive drafting course required for Design/Tech M.F.A. candidates with emphasis in technology. The course aims to equip the student to prepare clear shop working drawings from designer elevations. Topics include both conceptual planning techniques and developing mechanical drawing skills. One hour lecture, four lab hours, and extensive outside preparation. Previous completion of THEATER 430 strongly suggested.

THEATRE 5585 Advanced Technical Drafting
An intensive drafting course required for Design/Tech M.F.A. candidates with emphasis in technology. The course aims to equip the student to prepare clear shop working drawings from designer elevations. Topics include both conceptual planning techniques and developing mechanical drawing skills. One hour lecture, four lab hours, and extensive outside preparation. Previous
completion of THEATER 430 strongly suggested.

THEATRE 5586 Structural Design for the Stage
A course in the structural design of scenic elements. The student learns to work within the visual restrictions imposed by the designer to build structures that will bear given load requirements with a minimum of deflection. Basic engineering and load analysis principles are studied and applied in the design procedure to find the best possible solutions in terms of strength, weight, safety and cost.

THEATRE 5586 Structural Design for the Stage
A course in the structural design of scenic elements. The student learns to work within the visual restrictions imposed by the designer to build structures that will bear given load requirements with a minimum of deflection. Basic engineering and load analysis principles are studied and applied in the design procedure to find the best possible solutions in terms of strength, weight, safety and cost.

THEATRE 5587 Structural Design for the Stage II
This course is designed to give an introduction to the physics behind structural design and to guide the student through the process of designing safe, effective structural scenery for the theatre. Prerequisite: Theatre 5586

THEATRE 5587 Structural Design for the Stage II
This course is designed to give an introduction to the physics behind structural design and to guide the student through the process of designing safe, effective structural scenery for the theatre. Prerequisite: Theatre 5586

THEATRE 5590 Directed Graduate Studies
Individual projects on the graduate level. No more than three hours with any one instructor. Prerequisite: Consent of the instructor. Only one 590 each semester.

THEATRE 5590 Directed Graduate Studies
Individual projects on the graduate level. No more than three hours with any one instructor. Prerequisite: Consent of the instructor. Only one 590 each semester.

THEATRE 5590A Directed Graduate Studies

THEATRE 5590B Directed Graduate Studies: Design

THEATRE 5590C Directed Graduate Studies: Costumes

THEATRE 5590D Directed Graduate Studies: Scenic Design

THEATRE 5590E Directed Graduate Studies: Directing

THEATRE 5590F Directed Graduate Studies

THEATRE 5590G Directed Graduate Studies: Lighting

THEATRE 5590H Directed Graduate Studies: Playwriting

THEATRE 5590I Directed Graduate Studies

THEATRE 5590J Directed Graduate Studies: Stage Management
THEATRE 5590K Directed Graduate Studies: Technical Production

THEATRE 5590L Directed Graduate Studies: Theatre Management

THEATRE 5590M Directed Graduate Studies: Theory And Criticism

THEATRE 5590N Directed Graduate Studies: Dramaturgy

THEATRE 5590R Directed Graduate Studies

THEATRE 5590S Directed Graduate Studies

THEATRE 5590T Directed Graduate Studies

THEATRE 5592A Seminar on Stage Management Practice
MFA student stage managers meet one hour a week with the Production Manager of both Kansas City Repertory Theatre and Department of Theatre (and head of stage management training), to discuss current management problems and solutions for productions in progress. The seventeen productions mounted each year by the Department and the Rep will be examined. Students will become aware of problem solving procedures in both the professional and the academic theatre. Prerequisite: None, except to be a Graduate Stage Management Student. Offered: Fall and Winter Semesters

THEATRE 5592B Seminar on Stage Management Practice
MFA student stage managers meet one hour a week with the Production Manager of both Kansas City Repertory Theatre and Department of Theatre (and head of stage management training) to discuss current management problems and solutions for productions in progress. The seventeen productions mounted each year by the Department and the Rep will be examined. Students will become aware of problem solving procedures in both the professional and the academic theatre. Prerequisite: None, except to be a Graduate Stage Management Student. Offered: Fall and Winter Semesters

THEATRE 5592C Seminar on Stage Management Practice
MFA student stage managers meet one hour a week with the Production Manager of both Kansas City Repertory Theatre and Department of Theatre (and head of stage management training) to discuss current management problems and solutions for productions in progress. The seventeen productions mounted each year by the Department and the Rep will be examined. Students will become aware of problem solving procedures in both the professional and the academic theatre. Prerequisite: None, except to be a Graduate Stage Management Student. Offered: Fall and Winter Semesters

THEATRE 5592D Seminar on Stage Management Practice
MFA student stage managers meet one hour a week with the Production Manager of both Kansas City Repertory Theatre and Department of Theatre (and head of stage management training) to discuss current management problems and solutions for productions in progress. The seventeen productions mounted each year by the Department and the Rep will be examined. Students will become aware of problem solving procedures in both the professional and the academic theatre. Prerequisite: None, except to be a Graduate Stage Management Student. Offered: Fall and Winter Semesters

THEATRE 5592E Seminar on Stage Management Practice
MFA student stage managers meet one hour a week with the Production Manager of both Kansas City Repertory Theatre and Department of Theatre (and head of stage management training) to discuss current management problems and solutions for productions in progress. The seventeen productions mounted each year by the Department and the Rep will be examined. Students will become aware of problem solving procedures in both the professional and the academic theatre. Prerequisite: None, except to be a Graduate Stage Management Student. Offered: Fall and Winter Semesters

THEATRE 5597 Repertory Theatre: Internship
Assignments available in the following areas: directing, design, carpentry, lighting, costume, props, acting, stage management. Technical interns will be assigned by the appropriate heads of those areas. Acting interns may understudy and/or play roles with the Kansas City Repertory Theatre on the Spencer stage or in showcase productions. Also, interns will have some responsibility in technical areas such as change-over, props, costume, running crew, and stage management. Directing interns may assist
director or assistant stage manager. Prerequisite: Selection by chairman of department.

THEATRE 5597 Repertory Theatre: Internship
Assignments available in the following areas: directing, design, carpentry, lighting, costume, props, acting, stage management. Technical interns will be assigned by the appropriate heads of those areas. Acting interns may understudy and/or play roles with the Kansas City Repertory Theatre on the Spencer stage or in showcase productions. Also, interns will have some responsibility in technical areas such as change-over, props, costume, running crew, and stage management. Directing interns may assist director or assistant stage manager. Prerequisite: Selection by chairman of department.

THEATRE 5598R Research And Performance
Primarily for the M.F.A. student. Permission of the graduate faculty.

THEATRE 5599 Research And Thesis

THEATRE 5599 Research And Thesis

THEATRE 5697 Repertory Theatre: Residency
The residency consists of authorized participation with the Kansas City Repertory Theatre, the Department of Theatre, or an approved outside professional company, and is arranged under departmental advisement, with the chairman of the department, and in consultation with the artistic director of KCRep. The assignment will be determined by matching interest and degree emphasis with available production assignments.

THEATRE 5697 Repertory Theatre: Residency
The residency consists of authorized participation with the Kansas City Repertory Theatre, the Department of Theatre, or an approved outside professional company, and is arranged under departmental advisement, with the chairman of the department, and in consultation with the artistic director of KCRep. The assignment will be determined by matching interest and degree emphasis with available production assignments.

THEATRE 5899 Required Graduate Enrollment

THEATRE 5899 Required Graduate Enrollment

Urban Planning & Design (UPD)

UPD 5596 Directed Study In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5596 Directed Study In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5596A Directed Study In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5596A Directed Study In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5596B Directed Study In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5596B Directed Study In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5596C Directed Study In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5596C Directed Study In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand
UPD 5599 Special Topics In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5599 Special Topics In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5599A Special Topics In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5599A Special Topics In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5599B Special Topics In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5599B Special Topics In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5599C Special Topics In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5599C Special Topics In Urban Planning And Design
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Offered: On Demand

UPD 5630 Quantitative Planning Methods I
This course introduces graduate students to quantitative methods in urban planning analysis. Topics include relating built form to function, demographic forecasting, economic impact analysis, trip generation, and housing market dynamics. Prerequisite: Statistics

UPD 5740 Advanced GIS for Urban Planning
This advanced level GIS course is designed to expose graduate students to high level GIS techniques and geospatial analysis in the urban planning context. Students will learn data management skills in GIS and advanced geoprocessing tools with hand-on experiences. Students will also have an opportunity to work on a real world GIS project as part of course requirements. Prerequisites: UPD 203 or UPD 5203 GIS for urban planning or an equivalent introductory level GIS course.

UPD 5742 Transportation Planning
This course provides fundamental theories, methods, and contemporary issues in transportation planning. The topics covered in this course include the transportation planning process, transportation systems, travel demand analysis, and policy issues such as the linkage between land use and transportation and environmental impacts, and traffic congestion.

UPD 5746 Urban Environmental Planning
Urban environmental planning examines ecological change due to urbanization. It looks at ways to measure and demonstrate ecological change at the site, neighborhood, and regional scales. Students incorporate environmental ideas and policies into plans developed for a client.

UPD 5747 Urban Redevelopment
This course examines techniques of urban redevelopment within urban planning and real estate. Graduate students learn about the development process, real estate markets, techniques of development finance and local policy approaches to urban redevelopment incentives.

School of Biological Sciences
School of Biological Sciences Graduate Courses

Biology (BIOLOGY)
BIOLOGY 500PS Special Topics Umkc

BIOLOGY 501 Agrostology

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BIOLOGY 501PS Special Topics Umkc

BIOLOGY 502PS Special Topics Umkc

BIOLOGY 506 Adv Comp Animal Physiol

BIOLOGY 510 Advanced Microbiology
Course includes bacteriology, immunology, mycology, parasitology, tumor biology and virology. Prerequisites: Biol. 313 and Chem. 360. Biology 510 must be taken concurrently with Biol. 510L. Five hours lecture per week.*

BIOLOGY 510L Advanced Microbiology Laboratory
Isolation and identification of etiologic agents causing respiratory, central nervous system, enteric, urinary tract and venereal infections. Diagnostic tests, immunological procedures and antibiotic sensitivity tests will be presented. Corequisite: Biol. 510. Four hours per week.*

BIOLOGY 514 Biogeography
Seminar on the geographical distribution of organisms interpreted from geological, ecological and evolutionary evidence. Two hours a week.

BIOLOGY 520 Speciation
Discussion of biological factors involved in the formation of new species, including biological isolating mechanisms, geographic variation, intrapopulation structure of natural species, subspecies and ecotypes, and geographic isolation. Three hours lecture a week.

BIOLOGY 523 Limnology
Physical, chemical and biological dynamics of inland waters and estuaries; appropriate techniques and equipment for sampling aquatic ecosystems. Three hours lecture a week.

BIOLOGY 532 Mammalogy
Specialized study of the systematics, ecology, morphology, and evolution of mammals. Two 2-hour combined lecture-laboratories per week.*

BIOLOGY 540 Advanced Tropical Field Biology
An intensive field study of tropical plants, animals, and ecosystems. Offered as a two-week (3 credit hours) or a four-week (6 credit hours) field class. The two-week course may be repeated once for a maximum of six credit hours. Prerequisite: Consent of instructor. (Also offered as Biology 440).

BIOLOGY 544 Hypersensitivity

BIOLOGY 550I Proposal Writing
This course addresses how to develop a testable hypothesis, and write a NIH-style proposal to convince the reader of the significance of the proposed studies. Students will write a proposal that will form the basis of their oral comprehensive exam in the Cell Biology and Biophysics (CBB) and Molecular Biology and Biochemistry (MBB) disciplines. The course is offered in the summer semester only, and is limited to doctoral students with CBB and MBB coordinating disciplines. Students must have filed their I.Ph.D Plan of Study with the School of Graduate Studies to take this course.

BIOLOGY 5510 Gross Anatomy for Nurse Anesthetists
This course will present and examine the anatomic concepts and conditions essential for critical thinking and decision making by the nurse anesthetist. Specifically, the course will provide the foundation upon which patient interventions may be based during the perioperative period. Students must be co-enrolled in BIOL 5510 and 5510L. Prerequisites: Graduate Student status in the School of Biological Sciences.

BIOLOGY 5510L Gross Anatomy for Nurse Anesthetists
This laboratory course will present and examine the anatomic concepts and conditions essential for critical thinking and decision making by the nurse anesthetist. Specifically, the course will provide the foundation upon which patient intervention may be based during the perioperative period. Students must be co-enrolled in both BIOL 5510 and BIOL 5510L. Prerequisites: Graduate Student status in the School of Biological Sciences.
BIOLOGY 5519 Principles Of Evolution
Synthesis of the modern concepts of evolution. Discussion of the biological processes that produce organic diversity through phyletic change. Discussed are variation, mutation, population genetics, natural selection and adaptation. Three hours lecture a week. Prerequisites: BIOLOGY 206 or consent of instructor.

BIOLOGY 5519 Principles Of Evolution
Synthesis of the modern concepts of evolution. Discussion of the biological processes that produce organic diversity through phyletic change. Discussed are variation, mutation, population genetics, natural selection and adaptation. Three hours lecture a week. Prerequisites: BIOLOGY 206 or consent of instructor.

BIOLOGY 5525 Bioinformatics And Data Analysis
Methods and procedures for the storage, retrieval and analysis of information in biomolecular and biological databases. Emphasis will be given to the use of database information in biological research and to recent developments in genomics and proteomics. Offered: Every Winter Prerequisites: LS-BIOC 341, LSBIOC 360, upper level undergraduate biochemistry or molecular genectics course, or permission of instructor.

BIOLOGY 5525 Bioinformatics And Data Analysis
Methods and procedures for the storage, retrieval and analysis of information in biomolecular and biological databases. Emphasis will be given to the use of database information in biological research and to recent developments in genomics and proteomics. Offered: Every Winter Prerequisites: LS-BIOC 341, LSBIOC 360, upper level undergraduate biochemistry or molecular genectics course, or permission of instructor.

BIOLOGY 5534 Cardiovascular Pulmonary Physiology
Function of the cardiovascular and pulmonary systems at the cellular, tissue, and system levels with particular emphasis on regulation, maintenance of homeostasis and integration with other systems. Consent number required. Restricted to SBS graduate students and interdisciplinary Ph.D students. Prerequisites: LS-PHYS 316 or equivalent.

BIOLOGY 5534 Cardiovascular Pulmonary Physiology
Function of the cardiovascular and pulmonary systems at the cellular, tissue, and system levels with particular emphasis on regulation, maintenance of homeostasis and integration with other systems. Consent number required. Restricted to SBS graduate students and interdisciplinary Ph.D students. Prerequisites: LS-PHYS 316 or equivalent.

BIOLOGY 5539 Mammalian Physiology
Study of the physiological functions and controls in human and related mammalian systems, with emphasis on fundamental processes that underlie normal and abnormal clinical conditions. Prerequisites: LS-PHYS 316 or equivalent. Restricted to SBS graduate students and interdisciplinary Ph.D students. Consent required. Offered: Every Fall

BIOLOGY 5539 Mammalian Physiology
Study of the physiological functions and controls in human and related mammalian systems, with emphasis on fundamental processes that underlie normal and abnormal clinical conditions. Prerequisites: LS-PHYS 316 or equivalent. Restricted to SBS graduate students and interdisciplinary Ph.D students. Consent required. Offered: Every Fall

BIOLOGY 5542 Neurobiology
Neurobiology will consist of the presentation of theory and data concerning cellular and molecular fundamentals of the nervous system, synaptic mechanisms, sensor-motor systems, and higher-order functions of the nervous system. Three hours of lecture per week. Consent number required Restricted to SBS graduate students and interdisciplinary PhD students. Prerequisites: LS-BIOC 304

BIOLOGY 5542 Neurobiology
Neurobiology will consist of the presentation of theory and data concerning cellular and molecular fundamentals of the nervous system, synaptic mechanisms, sensor-motor systems, and higher-order functions of the nervous system. Three hours of lecture per week. Consent number required Restricted to SBS graduate students and interdisciplinary PhD students. Prerequisites: LS-BIOC 304

BIOLOGY 555 Special Problems In Biology Ma Programs

BIOLOGY 5591 Directed Individual Studies
Intensive readings and/or research in an area selected by the graduate student in consultation with the instructor. Not to be identified with thesis research. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.
BIOLOGY 5591 Directed Individual Studies
Intensive readings and/or research in an area selected by the graduate student in consultation with the instructor. Not to be identified with thesis research. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

BIOLOGY 5592 Master Of Arts Topics In Biology
Special problems and topics in biology specifically intended to satisfy the project or report requirement for the master of arts degree in biology. Enrollment is restricted to persons having satisfactorily completed at least nine hours of graduate work in Biology. Restricted to SBS graduate students.

BIOLOGY 5592 Master Of Arts Topics In Biology
Special problems and topics in biology specifically intended to satisfy the project or report requirement for the master of arts degree in biology. Enrollment is restricted to persons having satisfactorily completed at least nine hours of graduate work in Biology. Restricted to SBS graduate students.

BIOLOGY 5593 Master Of Science Topics
Investigation of problems and topics to satisfy the M.S. topics requirement for the master of science degree in Cellular and Molecular Biology. Restricted to SBS graduate students. Prerequisites: LS-MBB 5561 and LS-MBB 5562.

BIOLOGY 5593 Master Of Science Topics
Investigation of problems and topics to satisfy the M.S. topics requirement for the master of science degree in Cellular and Molecular Biology. Restricted to SBS graduate students. Prerequisites: LS-MBB 5561 and LS-MBB 5562.

BIOLOGY 560 Current Topics Microbiology

BIOLOGY 561 Current Topics In Microbiology II

BIOLOGY 571 Cellular Immunology
Biochemical, physiological and genetic considerations of cellular and molecular mechanisms involved in regulation of antibody and cell-mediated immune responses. Prerequisites: Biol. 435 and consent of instructor.*

BIOLOGY 572 Immunochemistry

BIOLOGY 584 Current Topic Biology-Physiology

BIOLOGY 585V Current Topics In Biology: Field Methods In Mammalogy

BIOLOGY 585W Current Topics In Biology: Sexually Transmitted Diseases

BIOLOGY 585X Current Topics In Biology

BIOLOGY 585Z Current Topics In Biology

BIOLOGY 586 Microbiology Seminar
Presentation and discussion of topics currently appearing in professional literature of microbiology and of research being conducted by members of the department. Required for all new microbiology graduated students.*

BIOLOGY 5899 Required Graduate Enrollment

BIOLOGY 5899 Required Graduate Enrollment
BIOLOGY 590 Thesis Research

BIOLOGY 595B Topics Virology

BIOLOGY 595C Topics Advanced Biology Student Research

BIOLOGY 595D Topics In Advanced Physiology

BIOLOGY 595E Advanced Topics

BIOLOGY 595G Topics Microscopic Methods

BIOLOGY 595H Topics Modern Trends In Biology

BIOLOGY 595I Topics Advanced Biology Entomology

BIOLOGY 595J Morphology Of Vertebrates

BIOLOGY 595K Taxonomy Of Vase Plants

BIOLOGY 595L Cellular Biology

BIOLOGY 595M Morph Vert Sc Teach

BIOLOGY 599C Topics Plant Pathology

BIOLOGY 700PS Special Topics Umkc

BIOLOGY 784 Biometrics

Life Sciences (LIFE-SCI)
LIFE-SCI 5899 Required Graduate Enrollment

LIFE-SCI 5899 Required Graduate Enrollment

Life Sciences - Cellular Biology & Biophysics (LS-CBB)

LS-CBB 5501 Graduate Biophysical Principles
The focus of Biophysical Principles 5501 is on the theoretical principles underlying the biophysical methods used by a wide range of biological chemists. The approaches covered include thermodynamics, chemical kinetics, molecular interactions, transport properties, quantum mechanics, optical spectroscopy, and molecular structural approaches involving nuclear magnetic resonance spectroscopy, X-ray diffraction, and Mass spectrometry. There are two lectures per week (T, TH) of 80 minutes each.

LS-CBB 5504 Graduate Virology
Survey of the molecular biology of animal, plant, and bacterial viruses. The course will emphasize the molecular mechanisms of virus replication, viral pathogenesis, and the use of virus as model systems to study mammalian cells. Three lecture hours per
week.

**LS-CBB 5505 Molecular And Cellular Neurobiology**
The molecular basis of chemical and electrical communication between nerve cells. Topics will include: neurotransmitters, neuropeptides, receptors, channels, second messengers, cytoskeleton, cell adhesion, development, neuronal plasticity and psychopharmacology. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

**LS-CBB 5505 Molecular And Cellular Neurobiology**
The molecular basis of chemical and electrical communication between nerve cells. Topics will include: neurotransmitters, neuropeptides, receptors, channels, second messengers, cytoskeleton, cell adhesion, development, neuronal plasticity and psychopharmacology. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

**LS-CBB 5520 Cell and Molecular Biology II**
A presentation of the cellular and subcellular organization and function of eukaryotic cells. Discussions will emphasize basic concepts by which structure and functions are integrated. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562.

**LS-CBB 5530 Cell and Molecular Biology I**
Molecular aspects of gene structure and function in prokaryotic and enkaryotic organisms and their viruses. Emphasis in genome structure and organization and regulation of gene expression. Prerequisite or corequisite: LS-MBB 5561.

**LS-CBB 5530 Cell and Molecular Biology I**
Molecular aspects of gene structure and function in prokaryotic and enkaryotic organisms and their viruses. Emphasis in genome structure and organization and regulation of gene expression. Prerequisite or corequisite: LS-MBB 5561.

**LS-CBB 5538 Molecular Recognition In Cellular Biology**
Graduate Research Seminar. Studies of the latest development leading to an increased understanding of cellular biology processes when the experimental tools for structure biology analysis and molecular genetics are applied. Prerequisites: LS-MBB 5561 as co-or pre-requisite, or permission of SBS graduate advisor. Offered: Fall

**LS-CBB 5538 Molecular Recognition In Cellular Biology**
Graduate Research Seminar. Studies of the latest development leading to an increased understanding of cellular biology processes when the experimental tools for structure biology analysis and molecular genetics are applied. Prerequisites: LS-MBB 5561 as co-or pre-requisite, or permission of SBS graduate advisor. Offered: Fall

**LS-CBB 5566 Membrane Biochemistry And Biophysics**
Structure and function of biological membranes including architecture, dynamics, models, biochemical compartmentation, energy transduction, transport mechanisms, membrane protein structures, and cell surface receptors. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

**LS-CBB 5566 Membrane Biochemistry And Biophysics**
Structure and function of biological membranes including architecture, dynamics, models, biochemical compartmentation, energy transduction, transport mechanisms, membrane protein structures, and cell surface receptors. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

**LS-CBB 5569 Structural Biology, Methods And Strategies**
Analysis of strategies and methodologies such as X-ray crystallography, nuclear magnetic resonance and advanced microscopy procedures including imaging analysis for the study of relationships of higher order macromolecular structures to biological functions. Prerequisites: LS-MBB 5561 AND LS-MBB 5562. Restrictions: Restricted to AU 60 and 73 students.

**LS-CBB 5569 Structural Biology, Methods And Strategies**
Analysis of strategies and methodologies such as X-ray crystallography, nuclear magnetic resonance and advanced microscopy procedures including imaging analysis for the study of relationships of higher order macromolecular structures to biological functions. Prerequisites: LS-MBB 5561 AND LS-MBB 5562. Restrictions: Restricted to AU 60 and 73 students.

**LS-CBB 5583 Current Topics In Cell Biology And Biophysics**
Current topics and recent developments in cell biology and biophysics with emphasis on rapidly developing research areas. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

**LS-CBB 5583 Current Topics In Cell Biology And Biophysics**
Current topics and recent developments in cell biology and biophysics with emphasis on rapidly developing research areas. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D.
students.

**LS-CBB 5591 Directed Individual Studies In Cell Biology And Biophysics**
Intensive reading and/or research in an area selected by the graduate student in consultation with the instructor. Prerequisites: Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

**LS-CBB 5591 Directed Individual Studies In Cell Biology And Biophysics**
Intensive reading and/or research in an area selected by the graduate student in consultation with the instructor. Prerequisites: Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

**LS-CBB 5596 Advanced Experimental Cell Biology I**
Structured laboratory work with individual tutorial sessions designed to familiarize first year Interdisciplinary Ph.D. students with concepts and techniques of modern cell biology research. 1-2 hr/wk tutorial and 15-20 hr/wk of laboratory work. Prerequisite or co-requisite: LS-MBB 5561. Restricted to Interdisciplinary Ph.D. students with CBB or MBB as coordinating unit.

**LS-CBB 5596 Advanced Experimental Cell Biology I**
Structured laboratory work with individual tutorial sessions designed to familiarize first year Interdisciplinary Ph.D. students with concepts and techniques of modern cell biology research. 1-2 hr/wk tutorial and 15-20 hr/wk of laboratory work. Prerequisite or co-requisite: LS-MBB 5561. Restricted to Interdisciplinary Ph.D. students with CBB or MBB as coordinating unit.

**LS-CBB 5597 Advanced Experimental Cell Biology II**
Continuation of LS-CBB 5596. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562. Restricted to Interdisciplinary Ph.D. students with CBB or MBB as coordinating unit.

**LS-CBB 5597 Advanced Experimental Cell Biology II**
Continuation of LS-CBB 5596. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562. Restricted to Interdisciplinary Ph.D. students with CBB or MBB as coordinating unit.

**LS-CBB 5599 Thesis Research In Cell Biology And Biophysics**
Research and thesis preparation for M.S. degree candidates. Prerequisite or co-requisites: LS-MBB 5561 and LS-MBB 5562. Restricted to School of Biological Sciences graduate students and Interdisciplinary Ph.D. students.

**LS-CBB 5599 Thesis Research In Cell Biology And Biophysics**
Research and thesis preparation for M.S. degree candidates. Prerequisite or co-requisites: LS-MBB 5561 and LS-MBB 5562. Restricted to School of Biological Sciences graduate students and Interdisciplinary Ph.D. students.

**LS-CBB 5612 Seminar In Cell Biology And Biophysics**
Presentation and discussion of selected areas in cell biology and biophysics. This course may be repeated by doctoral students for a maximum of 3 credit hours. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

**LS-CBB 5612 Seminar In Cell Biology And Biophysics**
Presentation and discussion of selected areas in cell biology and biophysics. This course may be repeated by doctoral students for a maximum of 3 credit hours. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

**LS-CBB 5690 Analytical Methods In Cell Biology And Biophysics**
A course that emphasizes the development of skills in experimental design, analytical methods and instrumentation as applied to problems of interest to modern cell biology and biophysics, and analysis of results. Can be repeated up to a maximum of eight hours total. Prerequisites: LS-MBB 5561 and LMSMBB 5562; admission in I.Ph.D program with CBB as coordinating or co-discipline; can only be taken prior to reaching candidacy.

**LS-CBB 5690 Analytical Methods In Cell Biology And Biophysics**
A course that emphasizes the development of skills in experimental design, analytical methods and instrumentation as applied to problems of interest to modern cell biology and biophysics, and analysis of results. Can be repeated up to a maximum of eight hours total. Prerequisites: LS-MBB 5561 and LMSMBB 5562; admission in I.Ph.D program with CBB as coordinating or co-discipline; can only be taken prior to reaching candidacy.

**LS-CBB 5699 Dissertation Research In Cell Biology And Biophysics**
Research and dissertation preparation for interdisciplinary Ph.D. degree students who have Cell Biology and Biophysics as a
discipline. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

**LS-CBB 5699 Dissertation Research In Cell Biology And Biophysics**
Research and dissertation preparation for interdisciplinary Ph.D. degree students who have Cell Biology and Biophysics as a discipline. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

**Life Sciences - Molecular Biology & Biochemistry (LS-MBB)**

**LS-MBB 5503 Eukaryotic Molecular Biology**
Molecular aspects of gene structure and function in eukaryotic organisms and their viruses. Emphasis on genome structure and organization, gene expression and regulation and the molecular basis of growth and development. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

**LS-MBB 5503 Eukaryotic Molecular Biology**
Molecular aspects of gene structure and function in eukaryotic organisms and their viruses. Emphasis on genome structure and organization, gene expression and regulation and the molecular basis of growth and development. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

**LS-MBB 5509 Graduate Developmental Biology**
Principles of development and differentiation of structure during embryology in animals. Molecular, cellular and organismal level concepts and mechanism will be considered. Three hours lecture per week.

**LS-MBB 5528 Human Genomic Epidemiology**
This course is designed for biological researchers and clinicians interested in studying common human diseases using state-of-the-art genomics/genetics epidemiological approaches. The course provides a basic yet comprehensive introduction to key topics in human genome epidemiological research, including basic concepts and methodologies of quantitative/statistical genetics, an introduction to emerging technologies and analytical methods for genomic science, basic study for various types of genomic research approaches, utilization of widely-used software packages for analyses of genomic data, and examples of human genome epidemiology information improving health, and ethical, legal and social issues in the design and conduct of human genome epidemiology studies. Must have instructor permission.

**LS-MBB 5538 Molecular Recognition In Molecular Biology**
Graduate Research Seminar. Analysis of the impact of most recent developments in molecular genetics and structural biology as related to fundamental molecular recognition events. Prerequisites: LS-MBB 5561 as co-or pre-requisite, or permission of SBS graduate advisor. Offered: Winter

**LS-MBB 5538 Molecular Recognition In Molecular Biology**
Graduate Research Seminar. Analysis of the impact of most recent developments in molecular genetics and structural biology as related to fundamental molecular recognition events. Prerequisites: LS-MBB 5561 as co-or pre-requisite, or permission of SBS graduate advisor. Offered: Winter

**LS-MBB 5561 General Biochemistry I**
The first semester of a two-semester sequence in general biochemistry. This course will emphasize the structure of biological molecules, thermodynamics and kinetics of biological reactions, and selected aspects of energy metabolism and metabolic pathways. Prerequisite: CHEM 322R.

**LS-MBB 5561 General Biochemistry I**
The first semester of a two-semester sequence in general biochemistry. This course will emphasize the structure of biological molecules, thermodynamics and kinetics of biological reactions, and selected aspects of energy metabolism and metabolic pathways. Prerequisite: CHEM 322R.

**LS-MBB 5562 General Biochemistry II**
The second semester of a two-semester sequence in general biochemistry. This course will emphasize selected aspects of the biochemistry of metabolism and macromolecular assemblies. The molecular basis of genetic and metabolic regulation will be discussed. Prerequisite: LS-MBB 5561.

**LS-MBB 5562 General Biochemistry II**
The second semester of a two-semester sequence in general biochemistry. This course will emphasize selected aspects of the biochemistry of metabolism and macromolecular assemblies. The molecular basis of genetic and metabolic regulation will be discussed. Prerequisite: LS-MBB 5561.
LS-MBB 5565 Structure And Function Of Proteins
This course will discuss structure-function relationships of proteins. Topics will include: methods of structure-function analysis, catalytic mechanisms, and regulation of enzyme activity. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

LS-MBB 5565 Structure And Function Of Proteins
This course will discuss structure-function relationships of proteins. Topics will include: methods of structure-function analysis, catalytic mechanisms, and regulation of enzyme activity. Prerequisite or corequisite: LS-MBB 5561 and LS-MBB 5562.

LS-MBB 5567 Physical Biochemistry
Application of physical and chemical principles to elucidate structure and function of biochemical systems. The various modes of interactions between biologically important molecules and the specificity of their interaction will be examined through selected literature examples. Prerequisite or co-requisite: LS MBB 5561 and LS-MBB 5562.

LS-MBB 5567 Physical Biochemistry
Application of physical and chemical principles to elucidate structure and function of biochemical systems. The various modes of interactions between biologically important molecules and the specificity of their interaction will be examined through selected literature examples. Prerequisite or co-requisite: LS MBB 5561 and LS-MBB 5562.

LS-MBB 5569 Current Topics In Molecular Biology And Biochemistry
Current topics and recent developments in biochemistry and molecular biology with emphasis on rapidly developing research areas. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

LS-MBB 5569 Current Topics In Molecular Biology And Biochemistry
Current topics and recent developments in biochemistry and molecular biology with emphasis on rapidly developing research areas. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

LS-MBB 5591 Directed Individual Studies In Molecular Biology And Biochemistry
Intensive readings and/or research in an area selected by the graduate student in consultation with the instructor. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

LS-MBB 5591 Directed Individual Studies In Molecular Biology And Biochemistry
Intensive readings and/or research in an area selected by the graduate student in consultation with the instructor. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate students and Interdisciplinary Ph.D. students.

LS-MBB 5596 Advanced Experimental Molecular Biology I
Structured laboratory work with individual tutorial sessions designed to familiarize first year Interdisciplinary Ph.D. students with concepts and techniques of modern molecular biology research. 1-2 hr/wk tutorial and 15-20 hr/wk of laboratory work. Prerequisite or co-requisite: LS-MBB 5561. Restricted to Interdisciplinary Ph.D. students with CBB or MBB as coordinating unit.

LS-MBB 5596 Advanced Experimental Molecular Biology I
Structured laboratory work with individual tutorial sessions designed to familiarize first year Interdisciplinary Ph.D. students with concepts and techniques of modern molecular biology research. 1-2 hr/wk tutorial and 15-20 hr/wk of laboratory work. Prerequisite or co-requisite: LS-MBB 5561. Restricted to Interdisciplinary Ph.D. students with CBB or MBB as coordinating unit.

LS-MBB 5597 Advanced Experimental Molecular Biology II
Continuation of LS-MBB 5596. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to Interdisciplinary Ph.D. students with CBB or MBB as coordinating unit.

LS-MBB 5597 Advanced Experimental Molecular Biology II
Continuation of LS-MBB 5596. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to Interdisciplinary Ph.D. students with CBB or MBB as coordinating unit.

LS-MBB 5599 Thesis Research In Molecular Biology And Biochemistry
Research and thesis preparation for M.S. degree candidates. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to School of Biological Sciences graduate students and Interdisciplinary Ph.D. students.

LS-MBB 5599 Thesis Research In Molecular Biology And Biochemistry
Research and thesis preparation for M.S. degree candidates. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562.
Restricted to School of Biological Sciences graduate students and Interdisciplinary Ph.D. students.

**LS-MBB 5611** Seminar In Molecular Biology And Biochemistry
Presentation and discussion of selected areas in biochemistry and molecular biology. This course may be repeated by doctoral students for a maximum of 3 credit hours. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562.

**LS-MBB 5611** Seminar In Molecular Biology And Biochemistry
Presentation and discussion of selected areas in biochemistry and molecular biology. This course may be repeated by doctoral students for a maximum of 3 credit hours. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562.

**LS-MBB 5690** Analytical Methods In Molecular Biology And Biochemistry
A course that emphasizes the development of skills in experimental design, analytical methods and instrumentation as applied to problems of interest to modern molecular biology and biochemistry, and analysis of results. Can be repeated up to a maximum of eight hours total. Prerequisites: LS-MBB 5561 and LS-MBB 5562; admission into I.Phd. program with MBB as coordination or co-discipline; can only be taken prior to reaching candidacy.

**LS-MBB 5690** Analytical Methods In Molecular Biology And Biochemistry
A course that emphasizes the development of skills in experimental design, analytical methods and instrumentation as applied to problems of interest to modern molecular biology and biochemistry, and analysis of results. Can be repeated up to a maximum of eight hours total. Prerequisites: LS-MBB 5561 and LS-MBB 5562; admission into I.Phd. program with MBB as coordination or co-discipline; can only be taken prior to reaching candidacy.

**LS-MBB 5699** Dissertation Research In Molecular Biology And Biochemistry
Research and dissertation preparation for interdisciplinary Ph.D. program students who have Molecular Biology and Biochemistry as a discipline. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate and Interdisciplinary Ph.D. students.

**LS-MBB 5699** Dissertation Research In Molecular Biology And Biochemistry
Research and dissertation preparation for interdisciplinary Ph.D. program students who have Molecular Biology and Biochemistry as a discipline. Prerequisite or co-requisite: LS-MBB 5561 and LS-MBB 5562. Restricted to SBS graduate and Interdisciplinary Ph.D. students.

**LS-MBB 899** Dissertation

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*Henry W. Bloch School of Management*

**Henry W. Bloch School of Management Graduate Courses**

**Accounting (ACCTNG)**

**ACCTNG 5501** Finance Performance & Assessment
This course covers the fundamentals of financial reporting systems. The material is presented from a user perspective. This approach is intended to prepare students to use accounting information and will not necessarily result in students understanding the process used to record accounting transactions. Material is presented in a manner that emphasizes how accounting information is used for decision making.

**ACCTNG 5517** Survey Of Accounting
An overview of financial and managerial accounting. The course introduces the various reports that are used by stockholders, creditors, and managers to assess company performance and evaluate financial health. In addition, techniques are presented that assist firm managers in planning, control, and decision-making activities.

**ACCTNG 5517** Survey Of Accounting
An overview of financial and managerial accounting. The course introduces the various reports that are used by stockholders, creditors, and managers to assess company performance and evaluate financial health. In addition, techniques are presented that assist firm managers in planning, control, and decision-making activities.

**ACCTNG 5550** Accounting Information Systems
This course examines a number of systems employed to process accounting information, the internal control activities typically used in each system, and associated documentation tools. Prerequisites: MIS 202 and ACCTNG 310
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This course examines a number of systems employed to process accounting information, the internal control activities typically used in each system, and associated documentation tools. Prerequisites: MIS 202 and ACCTNG 310

ACCTNG 5556 Cost Management
A study of the principles and techniques of cost accounting with emphasis on the structure of cost accounting systems and the processing, summarizing, and reporting of cost information. Topics include various issues relevant for manufacturing and service organizations, and introduction of situations that requires the application of cost information to managerial settings. Prerequisite: ACCTNG 5517 or equivalent. NOT open to students who have completed ACCTNG 307 or equivalent.

ACCTNG 5556 Cost Management
A study of the principles and techniques of cost accounting with emphasis on the structure of cost accounting systems and the processing, summarizing, and reporting of cost information. Topics include various issues relevant for manufacturing and service organizations, and introduction of situations that requires the application of cost information to managerial settings. Prerequisite: ACCTNG 5517 or equivalent. NOT open to students who have completed ACCTNG 307 or equivalent.

ACCTNG 5557 Introduction To Income Taxation
An investigation of the structure of federal, state, and local taxation, along with an examination of the impact of taxes on the management decision process. Prerequisite: ACCTNG 5517 or equivalent. NOT open to students who have completed ACCTNG 408 or equivalent.

ACCTNG 5557 Introduction To Income Taxation
An investigation of the structure of federal, state, and local taxation, along with an examination of the impact of taxes on the management decision process. Prerequisite: ACCTNG 5517 or equivalent. NOT open to students who have completed ACCTNG 408 or equivalent.

ACCTNG 5558 Financial Accounting Theory
A study of the theory and practice of financial accounting with emphasis upon financial statement preparation and analysis of asset, liability, and equity measurement. Prerequisite: ACCTNG 310 or ACCTNG 5517 or equivalent.

ACCTNG 5558 Financial Accounting Theory
A study of the theory and practice of financial accounting with emphasis upon financial statement preparation and analysis of asset, liability, and equity measurement. Prerequisite: ACCTNG 5517 or equivalent. NOT open to students who have completed ACCTNG 310 or equivalent.

ACCTNG 5559 Advanced Financial Accounting Theory
A study of advanced topics in financial accounting. Topics include business combinations and financial statement consolidation theory and practice. Prerequisite: ACCTNG 311 or equivalent.

ACCTNG 5559 Advanced Financial Accounting Theory
A study of advanced topics in financial accounting. Topics include business combinations and financial statement consolidation theory and practice. Prerequisite: ACCTNG 311 or equivalent.

ACCTNG 5560 Introduction To Auditing And Accounting Systems
Fundamentals underlying the design of accounting systems and the processing of accounting data. Current auditing standards and procedures are extensively investigated, with emphasis on the nature of internal control, audit evidence, and audit reports. Prerequisites: ACCTNG 5558 or equivalent. Not open to students who have completed ACCTNG 405 or equivalent.

ACCTNG 5561 Personal Financial Planning
A study of the personal financial planning process and environment, with the goal of training participants to prepare integrated financial plans. Topics addressed include an overview of insurance, retirement, investments, debt management, tax issues, estate planning and professional ethics. Prerequisite: ACCTNG 5517 or equivalent.

ACCTNG 5562 Financial Statement Analysis
A look at financial statements prepared by corporations for external use. The course provides students with the ability to organize, summarize, and understand corporate financial data for use in decision making. The subject matter should be especially useful for students considering careers in accounting, finance and financial services, and law. Prerequisite: ACCTNG 5517 or equivalent.

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**ACCTNG 5565** Advanced Accounting Systems
An in-depth analysis of various contemporary issues in accounting information systems. Prerequisite: ACCTNG 350 or its equivalent or permission of instructor.

**ACCTNG 5565** Advanced Accounting Systems
An in-depth analysis of various contemporary issues in accounting information systems. Prerequisite: ACCTNG 350 or its equivalent or permission of instructor.

**ACCTNG 5567** Information Systems Control And Audit
A study of the theory and practices employed to provide a secure computing environment. Potential threats to information systems as well as controls designed to counter those threats are emphasized. Prerequisite: One previous graduate course in accounting systems, management information systems, or computer science, or permission of the instructor.

**ACCTNG 5567** Information Systems Control And Audit
A study of the theory and practices employed to provide a secure computing environment. Potential threats to information systems as well as controls designed to counter those threats are emphasized. Prerequisite: One previous graduate course in accounting systems, management information systems, or computer science, or permission of the instructor.

**ACCTNG 5569** Information Systems Consulting
An application of systems concepts to the evaluation of information systems of local organizations. Student teams will analyze, document and make recommendations for the improvement of these systems, and will communicate their findings via written reports and oral presentations. Prerequisite: One graduate information systems course or permission of instructor.

**ACCTNG 5569** Information Systems Consulting
An application of systems concepts to the evaluation of information systems of local organizations. Student teams will analyze, document and make recommendations for the improvement of these systems, and will communicate their findings via written reports and oral presentations. Prerequisite: One graduate information systems course or permission of instructor.

**ACCTNG 5570** Fraud Auditing
This course is designed to provide students with an understanding of accounting-based fraud and the fraud audit process. This course will examine fraud risks and ways to manage, prevent, and detect the occurrence of fraud. Prerequisites: ACCTNG 405 or equivalent.

**ACCTNG 5571** Individual Tax Problems
A study of substantive issues relating to individual taxation using the Internal Revenue Code and Regulations as sources. Topics include a detailed study of current issues such as alternative minimum tax, passive losses, and employee business expenses. Prerequisite: ACCTNG 5557 or equivalent or concurrent enrollment in ACCTNG 409.

**ACCTNG 5571** Individual Tax Problems
A study of substantive issues relating to individual taxation using the Internal Revenue Code and Regulations as sources. Topics include a detailed study of current issues such as alternative minimum tax, passive losses, and employee business expenses. Prerequisite: ACCTNG 5557 or equivalent or concurrent enrollment in ACCTNG 409.

**ACCTNG 5572** Tax Theory And Business Applications
A study of substantive issues relating to the taxation of business entities including multi-jurisdictional considerations. Topics include business formation and dissolution, business valuation, selection of business entity, compensation of employees, sales or exchanges of business property, and business tax credits. Prerequisite: ACCTNG 409 or ACCTNG 5557 or equivalents.

**ACCTNG 5572** Tax Theory And Business Applications
A study of substantive issues relating to the taxation of business entities including multi-jurisdictional considerations. Topics include business formation and dissolution, business valuation, selection of business entity, compensation of employees, sales or exchanges of business property, and business tax credits. Prerequisite: ACCTNG 409 or ACCTNG 5557 or equivalents.

**ACCTNG 5573** Taxation Of Estates, Gifts, And Trusts
A study of substantive issues in the income taxation of estates and trusts and the taxation of estates and gifts using the Internal Revenue Code and Regulations as sources. Emphasis will be placed on lifetime and post-mortem planning techniques as well as compliance requirements. Prerequisite: ACCTNG 409 or ACCTNG 5557 (or equivalents) or concurrent enrollment in ACCTNG 409.
ACCTNG 5573 Taxation Of Estates, Gifts, And Trusts
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ACCTNG 5574 Tax Accounting
A study of substantive issues relating to the accounting aspects of federal income taxation. Topics include methods of income and expense reporting, adoption of and change in accounting periods and methods, and annual accounting and transactional concepts. Prerequisite: ACCTNG 409 or ACCTNG 5557 (or equivalents) or concurrent enrollment in ACCTNG 409.

ACCTNG 5575 Managerial Accounting: Issues, Tools And Analysis
A look at various tools used to assist in the planning, control, performance evaluation, and decision-making activities of managers. Contemporary issues that confront management are introduced where appropriate. Prerequisite: ACCTNG 307 or ACCTNG 5556 or equivalent.

ACCTNG 5576 Tax Research, Procedure And Practice
An introduction to research sources and methods with an emphasis on analysis and communication of conclusions. Administrative procedures of the Internal Revenue Service and the professional responsibilities of tax practitioners will also be addressed. Prerequisite: ACCTNG 409 or ACCTNG 5557 or concurrent enrollment in ACCTNG 409.

ACCTNG 5577 Advanced Auditing
An analysis of real-world cases of audit problems with emphasis on red flags, pressures auditors face, and serious implications of audit failure (both perceived and real). Prerequisite: ACCTNG 405 or equivalent

ACCTNG 5578 Current Problems In Accounting
This course will focus on an in-depth exploration of specific problems including, but not confined to those accounting problems which have resulted in official positions being published or considered by the accounting profession. Prerequisite: ACCTNG 420 or equivalent or concurrent enrollment in ACCTNG 420.

ACCTNG 5579 Theory Of Income Determination
This course will consider the historical and cultural development of accounting principles and the relationship of those principles to economic concepts of profit and cost. Consideration of the economic aspects of accounting measurements will provide a vehicle for exploring accounting problem areas in terms of both internal and external reporting needs. Pertinent literature in the field will be explored as a basis for both oral and written reports. Prerequisites: ACCTNG 420 or equivalent, or concurrent enrollment in ACCTNG 420.
ACCTNG 5579 Theory Of Income Determination
This course will consider the historical and cultural development of accounting principles and the relationship of those principles to economic concepts of profit and cost. Consideration of the economic aspects of accounting measurements will provide a vehicle for exploring accounting problem areas in terms of both internal and external reporting needs. Pertinent literature in the field will be explored as a basis for both oral and written reports. Prerequisites: ACCTNG 420 or equivalent, or concurrent enrollment in ACCTNG 420.

ACCTNG 5580 Financial Reporting Systems
Introduces generally accepted accounting principles and concepts along with the preparation and analysis of financial statements. Prerequisite: Admission to Executive MBA Program.

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Introduces generally accepted accounting principles and concepts along with the preparation and analysis of financial statements. Prerequisite: Admission to Executive MBA Program.

ACCTNG 5587 Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisite: Consent of the instructor.

ACCTNG 5595 Internship
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor.

ACCTNG 5597 Independent Study
Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of instructor.

ACCTNG 5597 Independent Study
Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of instructor.

ACCTNG 5597A Special Topics In Accounting: Financial Accounting Theory

ACCTNG 5597B Special Topics In Accounting: Cost/Managerial Accounting Theory

ACCTNG 5597C Special Topics In Accounting: Taxation

ACCTNG 5597D Special Topics In Accounting: Auditing

ACCTNG 5597E Special Topics In Accounting: Accounting Systems

ACCTNG 5597F Special Topics In Accounting: Other Topics

ACCTNG 5597G Special Topics In Accounting: Personal Financial Planning

ACCTNG 570 Information Systems For Accounting And Control

ACCTNG 585 Advanced Accounting Systems
**Decision Science and Operations Management (DSOM)**

**DSOM 5505 Decision Sciences**
Understanding the conceptual framework of statistics as it relates to business decision-making and problem solving. Most of the work will be done based on the real-life applications of statistical concepts to business problems and cases. The course includes the topics of descriptive statistics, probability distributions, tests of hypotheses, and multi-variate analysis. Offered: Every Fall and Spring

**DSOM 5507 Operations and Supply Chain Management**
An integrating study that focuses on the models and methods of supply chain and operations management (SCOM). Managerial approaches to planning, scheduling, and controlling cost, time, quality, production, inventory, services, and supply chain are studied. This survey course exposes students to supply chain management, ERP systems, lean/just-in-time, total quality management, e-commerce, and other contemporary SCOM topics in both product and service-oriented organizations. Offered: Every Fall and Spring

**DSOM 5508 Statistical Analysis In Business**
Data analysis and statistical inference in the context of business management. Communication of analysis and conclusions using text, numbers, and graphics is emphasized. Understanding the conceptual framework of probability and statistics as it relates to statistical tests and procedures is emphasized more than computational methods. Most of the work will be done using a computer spreadsheet. The course includes the topics of estimation, tests of hypotheses, analysis of variance, and multiple regression.

**DSOM 5509 Applied Statistical Methods**
Investigates the use of detailed sample data for purposes of estimating, predicting, forecasting, and explaining correlations among varied observations. Students will apply the concepts of probability theory, central tendency, sampling, inference, modeling, and forecasting to help solve managerial problems and support decision processes. Prerequisite: Admission to Executive MBA Program

**DSOM 5514 Forecasting Theory And Applications**
A study of the essential concepts, theoretical basis and applications of alternative forecasting methods. Typical methods included are smoothing and decomposition time-series methods, regression methods, econometric models, single and multiple series autoregressive/moving average methods (ARIMA methods of Box-Jenkins). Prerequisite: DSOM 5508 or equivalent.

**DSOM 5519 Supply Chain and Operations Management**
An integrating study that focuses on the models, methods, and computer-based systems of supply chain and operations management (SCOM). Managerial approaches to planning, scheduling, and controlling cost, time, quality, production, inventory, services, and supply chains are studied. This survey course exposes students to supply chain management, ERP systems, lean/just-in-time, six sigma, total quality management, e-commerce, and other contemporary SCOM topics in both product and service-oriented organizations. Prerequisites: DSOM 5508, FIN 5501, ACCTNG 5517.

**DSOM 5540 Service Operations Management**
This course focuses on the increasing importance and role of service in our economy. Topics studied are: the role of services in an economy, the nature of services, service strategy, the service delivery system, service facility location, the service encounter, service quality, productivity and quality improvement. Methods of process analysis in service organizations, methods improvement procedures, and work measurement techniques are developed to provide the basis for analyses of processes, layouts, and job design in a service organization. Prerequisites: DSOM 5519 or equivalent, or consent of the instructor.

**DSOM 5542 ERP-Enterprise Resource Planning Systems**
Discusses the design and implementation of Advanced Manufacturing Technologies (AMT). This includes just-in-time (JIT) systems, cellular and flexible manufacturing systems (CM & FMS), computer integrated manufacturing (CIM), and enterprise resource Planning (ERP) systems. It also explores the role that manufacturing plays in product development efforts and cross-functional teams. Other topics such as manufacturing strategy, maintenance, set-up and lot size reductions, group technology and focused factories, production and operations scheduling and control techniques, and the design of work systems are presented as well. Case Studies and group projects/presentations are used for instructional purposes. Students are also required to use the MAX software to perform an ERP system analysis. Prerequisites: DSOM 5519 or equivalent.

**DSOM 5543 Project Management**
Planning and control of projects, to include network models, risk analysis, time reduction, resource scheduling, leadership, and evaluation. Prerequisite: DSOM 5519 or equivalent.
DSOM 5544 Global Supply Chain and Logistics Management
A study of integrated global supply chain management and logistics. Topics include integrating global ERP and forecasting systems, inventory management, distribution requirements planning, supply chain management, purchasing and supplier/vendor networks, logistics, transportation networks, and E-operations. ERP systems and network optimization are studied relative to both production and service operations. Prerequisites: DSOM 5519 (or equivalent), or consent

DSOM 5566 Operations Management for World Class Competitiveness
An examination of the basic principles and strategies used to manage the production and distribution of goods and services. This course positions operations management (OM) as an important tool for achieving strategic leadership through competitive advantage, and illustrates how the managerial integration of OM functions with corporate strategy improves business processes. Prerequisite: Admission to the Executive MBA program

DSOM 5587 Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisite: Consent of the instructor

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DSOM 5595 Internship
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

DSOM 5597 Independent Study
Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

DSOM 5899 Required Graduate Enrollment

Entrepreneurship (ENT)
ENT 5502 Introduction to Entrepreneurship
This course is designed to help students develop insights on what it takes to start a successful business. The primary focus is on opportunity identification and evaluation. This is accomplished by examining the characteristics of a good entrepreneurial opportunity and the steps required to get a business up and running.

ENT 5515 Entrepreneurship Boot Camp
This course is designed to provide students with an understanding of the process for identifying and evaluating entrepreneurial opportunities. Students will also learn how strategy, marketing, financial, legal matters, and cash flow impact opportunities in terms of execution and growth and how to position a new firm for success. The course will encourage students to reflect on their own entrepreneurial potential and to evaluate entrepreneurship as a potential career path. Even those who do not feel that they are entrepreneurs will benefit by discovering how to function more effectively in entrepreneur-led organizations. Furthermore, those responsible for technical innovation and business development within existing organizations should find this course helpful. This course is open to all UMKC graduate students.

ENT 5525 Entrepreneurship: Managing Creativity And Innovation
The course examines the nature of creativity and innovation and how entrepreneurship involves the ability to identify market opportunity based on new ideas. Detailed attention is given to the entrepreneurial process: the concepts, skills, know-how and know-who, information, attitudes, alternatives and resources that entrepreneurs need to manage creativity in the process of creating something with tangible economic value.

ENT 5527 Creating the New Venture Experiential Learning
This course guides students through the process, experiences, and requirements for creating a new venture and planning for operations up to the point of securing customers and generating first revenues. Key course actions include developing a business plan for the new venture, examining the initial steps for start-up and operational launch, and taking the initial steps to secure customers/revenues. Prerequisites: ENT 5515

ENT 5528 Creating the E-Business: Experiential Learning
This course guides students through the process, experiences, and requirements for creating a new online e-venture and planning for operations up to the point of securing customers and generating first revenues. Key course actions include developing a business plan for the new venture, examining the initial steps for start-up and operational launch, and preparing for securing of
customers/revenues. Prerequisite: ENT 5515

**ENT 5532 Managing the New Venture Experiential Learning**
This course is designed to provide students an experiential learning opportunity in running a new business. In particular, students will run the business that they started in ENT 5327 or ENT 5328. Students will define and deliver products and services to real business customers and clients; negotiate with suppliers, administrative agencies and other stakeholders; obtain financing for ongoing company relations; and be held accountable for cash flows and company budgets. Prerequisites: ENT 5514 and ENT 5537 or ENT 5538.

**ENT 5535 Small Business Management And Entrepreneurship**
This course focuses on the nature of the entrepreneurial organization; its volatility and flux, where standard operating procedures are lacking and organizational structure, culture and leadership style are created anew each day. Successful small business management requires that a series of developmental challenges be identified and addressed if the venture is to succeed.

**ENT 5541 Personal Entrepreneurial Strategy**
This course is a cooperative offering between UMKC, University of Kansas, and Rockhurst University and is taught at Kauffman Legacy Park. The course applies the case method to allow the student to learn about the entrepreneur and the entrepreneurial process, understand the sacrifices and benefits of being an entrepreneur, and develop professional skills relevant to entrepreneurial activity. Prior approval required for enrollment. Prerequisites: MKT 5531, FIN 5532, MGT 5506 or equivalents.

**ENT 5542 Technology and New Ventures I**
This course will build skills needed to create successful, high-value enterprises with technology. Emphasis will be on markets for technology, and venture capital. Case studies will emphasize the information technologies and energy/environmental technologies.

**ENT 5543 Technology And New Ventures II**
This course will draw upon the skills developed in ENT 5542 to enable student teams to prepare business plans for new ventures they might actually like to start. The information technologies and energy/environment will be emphasized, but students are welcome to propose any technologies. Prerequisites: ENT 5542 or equivalent

**ENT 5545 Entrepreneurship And New Venture Creation**
The objectives of this course are: (1) to build personal appreciation for the challenges and rewards of entrepreneurship in an independent mode by examining/simulating its environment; (2) to present and examine, through the use of complex case studies and high level guest/lectures, economic, legal and managerial mechanisms proven useful in creating new wealth; and (3) to foster continued development of venture ideas, suitable as career entry options or for investments, using a tutorial approach to business plan development, presentation and evaluation.

**ENT 5545E Innovation And Entrepreneurship I**
(two-course sequence) Covers the entrepreneurial and innovation process from conception to birth of the new business. It looks at both process and people involved in assessing ideas, exploiting opportunities, and converting concepts into high-growth businesses. Application of these processes will be extended to both start-ups and well as new business groups within existing organizations, with an emphasis on nurturing a climate of innovation. Students will identify opportunities for high-growth potential new enterprises, develop a business plan, and present their plans to a panel of potential investors and/or senior managers. Topics covered include organization form, funding sources, the start-up team, and the product launch.

**ENT 5545E Innovation And Entrepreneurship II**
(two-course sequence) Covers the entrepreneurial and innovation process from conception to birth of the new business. It looks at both process and people involved in assessing ideas, exploiting opportunities, and converting concepts into high-growth businesses. Application of these processes will be extended to both start-ups and well as new business groups within existing organizations, with an emphasis on nurturing a climate of innovation. Students will identify opportunities for high-growth potential new enterprises, develop a business plan, and present their plans to a panel of potential investors and/or senior managers. Topics covered include organization form, funding sources, the start-up team, and product launch.

**ENT 5552 Entrepreneurial Marketing**
This course exposes students to the objectives, challenges, and requirements for effective, results-oriented marketing activities and sales efforts for the entrepreneur/new venture. Key topics include the selection, design, and budgeting of entrepreneurial marketing and advertising programs, along with effective selling, customer acquisition, and service/retention efforts.

**ENT 5561 New Venture Creation and Product Innovation**
This course covers the first part of a two-course sequence and brings together several disciplines students have encountered in the first year of the Executive MBA program curriculum. Students will gain experience in new venture creation and product innovation management. A management simulation will serve as a continuing, evolving "case" in which course participants
working in teams assume ""CEO"" roles. Prerequisites: Admission to Executive MBA program

ENT 5562 Managing a High-Growth Business
This course covers the second part of a two-course sequence and brings together several disciplines students have encountered in the first year of the Executive MBA program curriculum. Students will gain experience in new venture creation and product innovation management. A management simulation will serve as a continuing, evolving ""case"" in which course participants working in teams assume ""CEO"" roles. Prerequisites: Admission to the Executive MBA program

ENT 5567 Innovation & Entrepreneurship I
This course, the first of a two-course sequence, covers the entrepreneurial and innovation process from conception to birth of the new business. It looks at both process and people involved in assessing ideas, exploiting opportunities, and converting concepts into high-growth businesses. Application of the processes will be extended to both start-ups and well as new business groups within existing organizations, with an emphasis on nurturing a climate of innovation. Students will identify opportunities for high-growth potential new enterprises, develop a business plan, and present their plans to a panel of potential investors and/or senior managers. Prerequisite: Admission to the Executive MBA program

ENT 5570 Pricing Strategy for New & Ongoing Enterprises
This course focuses on pricing stagey and tactics from both theoretical and applied contexts, concentrating on how firms capture value and profits in the revenues that they earn. Additional focus will be made on pricing dynamics and the reaction to competitor pricing at the firm and product level. The materials used are intended to provide a comprehensive exposure to managerial pricing decisions. The course illustrates how common tactical approaches to pricing undermine a company's ability to realize its profit potential. Prerequisites: Admission to Executive MBA program

ENT 5571 Advanced Real Estate Finance
The course explores advanced concepts about ownership issues, financing commercial real estate and analyzing a commercial real estate investment through the use of basic risk analysis models, financing strategies for investment real estate or development including an understanding of the secondary mortgage market and pass-through securities, and collateralized mortgage obligations. Prerequisites: FIN 5532

ENT 5572 MBA Capstone Experience-Business Plan for a Startup Company
Class participants will develop a business plan for a startup company. The plan must evidence understanding and analysis of the product or service, the opportunity assessment for the new product/service, the skills of the management team and the organization that the company will need to develop, the business model, the market, the industry including competitors, alternatives and choices for operations, the information systems and reports the management team will need, the milestones that investors should realistically expect the new entity to meet, the financial requirements of the company in its early phases.

ENT 5573 Real Estate Market Analysis and Feasibility Study
This course will enable students to understand the steps used to determine the highest and best use of any parcel of real estate. Students will learn marketplace factors that influence supply and demand, demographic and psychographics information, basic design parameters used to maximize the utility of land, as well as the political process to consider when developing a parcel of land to it's highest and best use. Prerequisites: DSOM 5508 and FIN 5532

ENT 5576 Real Estate Property Management
Explores the complexities of managing apartments, condominiums, office buildings, industrial property, and shopping centers. This course covers rental markets, development of rental schedules, leasing techniques and negotiations, repairs and maintenance, tenant relations, merchandising, selection and training of personnel, accounting, and owner relations.

ENT 5577 Legal Context of Real Estate Decision Making
This course introduces decisions involved in the development, ownership, and operation of commercial real estate and the legal issues associated with these decisions. Topics covered include: due diligence, loan application/brokerage agreements, zoning, easements, entitlements and condemnation actions, bankruptcy, commercial real estate insurance coverage, choice of business entity, income tax planning, and joint ventures.

ENT 5585 Venture Capital Finance And Investment
This course is designed for students who wish to learn about or become involved in the venture capital market as investors or intermediaries in emerging growth companies seeking capital. With this goal, the course will define the venture capital market and where it fits relative to other sources of capital; examine how private equity funds are raised and structured, how investments are sourced; selected; and negotiated; and the role of the value-added investor through investment to liquidity. The course presents and provides applications for various frameworks of valuing and structuring investment opportunities. Suggested Prerequisites: FIN 5532 and one of the following ENT 5515, ENT 5525, ENT 5535, ENT 5541, or ENT 5545 (or equivalents).
ENT 5587 Seminar In Entrepreneurship
A course on advanced and/or new topics. This course is designed to facilitate at least one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possibly final offering of new topics. New topics include those that are contemporary, cutting edge, or advanced topics that are not currently covered by existing courses. Prerequisite: Various, including permission of instructor.

ENT 5587A Seminar In Entrepreneurship
A course on advanced and/or new topics. This course is designed to facilitate at least one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possibly final offering of new topics. New topics include those that are contemporary, cutting edge, or advanced topics that are not currently covered by existing courses. Prerequisite: Various, including permission of instructor.

ENT 5587B Seminar In Entrepreneurship
A course on advanced and/or new topics. This course is designed to facilitate at least one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possibly final offering of new topics. New topics include those that are contemporary, cutting edge, or advanced topics that are not currently covered by existing courses. Prerequisite: Various, including permission of instructor.

ENT 5587C Seminar In Entrepreneurship
A course on advanced and/or new topics. This course is designed to facilitate at least one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possibly final offering of new topics. New topics include those that are contemporary, cutting edge, or advanced topics that are not currently covered by existing courses. Prerequisite: Various, including permission of instructor.

ENT 5587D Seminar In Entrepreneurship
A course on advanced and/or new topics. This course is designed to facilitate at least one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possibly final offering of new topics. New topics include those that are contemporary, cutting edge, or advanced topics that are not currently covered by existing courses. Prerequisite: Various, including permission of instructor.

ENT 5587E Seminar In Entrepreneurship
A course on advanced and/or new topics. This course is designed to facilitate at least one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possibly final offering of new topics. New topics include those that are contemporary, cutting edge, or advanced topics that are not currently covered by existing courses. Prerequisite: Various, including permission of instructor.

ENT 5587F Seminar In Entrepreneurship
A course on advanced and/or new topics. This course is designed to facilitate at least one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possibly final offering of new topics. New topics include those that are contemporary, cutting edge, or advanced topics that are not currently covered by existing courses. Prerequisite: Various, including permission of instructor.

ENT 5591 Small Business Management Practicum
An integrated management course designed to examine the principles of business management applicable to solving the problems of small and medium size businesses and assisting in their development. Prerequisite: Completion of core requirements.

ENT 5595 Internship
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

ENT 5597 Independent Study
Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of instructor.

ENT 5681 Multivariate Statistical Methods-II
Theoretical and research applications of MANOVA, canonical correlation, multi-discrimination analysis, factor analysis, and introduction to structural equation modeling using appropriate software. Students are expected to undertake a major research project during this class and to apply appropriate multivariate statistical analysis to their chosen academic research topic. Prerequisite: DSOM 5516 or equivalent.

ENT 5682 Structural Equation Modeling
This course presents structural equation modeling (SEM) including a review of regression and the study of path analysis,
including model specification, methods of estimation, recursive and non-recursive models; direct, indirect, and total effects methods of estimation; single and multi-group analyses; moderators; mediators; structural equation model specification; identification, methods of estimation, second-order factor analysis, and the assessment of casual structure. Students are expected to continue a research project started in ENT 5681. Prerequisite: ENT 5681

ENT 5683 Mathematical Models For Entrepreneurship
The purpose of this course is to provide an introduction to mathematical models in entrepreneurship and related disciplines. Classes will focus on the use of mathematical models to characterize the nature of various entrepreneurship-related decisions in complex environments. For each topic considered (e.g., R&D investment decisions in new product entry, diffusion, and marketing mix variables), a few articles have been chosen. Presentations and discussions are designed to help students understand and critique existing models and to stimulate the development of new theoretical viewpoints. Prerequisite: Doctoral standing or with instructor’s permission.

ENT 5691 Doctoral Seminar In Theoretical Foundations Of Entrepreneurship I
ENT 5691 is designed as a broad survey of major topics in the field of entrepreneurship. Its objective is to familiarize students with some of the primary theoretical underpinnings of the field as well as some of the common and/or promising methodological approaches to the study of entrepreneurial phenomena. Topics covered in the course include a theoretical overview, entrepreneurs, environment and organizational founding. Prerequisite: ENT 5691.

ENT 5692 Foundations Entrepreneurship
ENT 5692 is designed as a continuation of ENT 5691, providing a broad survey of major topics in the field of entrepreneurship. Its objective is to familiarize the student with some of the primary theoretical underpinnings of the field as well as some of the common and/or promising methodological approaches to the study of entrepreneurial phenomena. Topics covered in the course include: entrepreneurship's links with other disciplines, venture capital and venture capitalists, new venture strategy, new venture performance, growth processes and challenges, and entrepreneurial networks and alliances. Prerequisite: ENT 5691.

ENT 5693 Technology, Innovation, And Entrepreneurship
This seminar will explore academic literature of technology, innovation, and entrepreneurship. Specific topics include emerging technologies, evolutionary theory, building capabilities based on networks, organizational learning, technological innovation, institutional economics, network externalities, knowledge transfer, technological trajectories and path dependencies. Prerequisite: Doctoral standing.

ENT 5694 Doctoral Seminar In Theories Of The Fin And Strategy
In this course, students will become familiar with and develop an in-depth understanding of the concepts, models, and paradigms that collectively form the foundation for strategic thinking. Students will develop the ability to critically integrate findings from strategic research programs. Employing an appreciation for the interdisciplinary nature of strategic marketing and management, the purpose is to develop a keen awareness of major gaps that exist in the strategic literature. Students will strengthen the skills needed to conduct original strategic marketing research that can be published in the leading academic journals. Prerequisite: Doctoral Standing.

ENT 5699 Dissertation and Research in Entrepreneurship and Innovation
Dissertation research and writing in Entrepreneurship and Innovation Discipline. Prerequisite: consent of instructor.

Finance (FIN)
FIN 5501 Economics For Administration
This course is designed for graduate students in the School of Business and Public Administration. Topics include the theory and determination of national income, fiscal policy, monetary theory and policy, production and cost theory, and market structure.

FIN 5502 Corporate Financial Management
This course provides a rigorous, but concise distillation of the major tools and techniques of corporate finance. The three main topic areas covered during the course are the underlying principles of time value of money and stock, bond, and preferred stock valuation, techniques and procedures involved in the estimation of project cash flows and valuation, including net present value, the profitability index, the internal rate of return, the modified internal rate of return, and the equivalent annual annuity, and procedures employed to calculate the required rate of return for capital project evaluation. Prerequisites: Accounting 5501.

FIN 5504 Managerial Economics
This course applies microeconomic principles to for-profit and not-for-profit enterprises. Topics include: supply, demand, elasticity, equilibrium, cost and production theory, factor pricing, market structure and pricing and public policy toward business.

FIN 5505 Global Macroeconomics
Global Macroeconomics examines fiscal and monetary policies in the US as well as other countries. It considers issues of international trade, exchange rates and coordination of economic policies as well as economic integration and fiscal and financial
crisis management.

**FIN 5507 Strategic Financial Management: Theory & Policy**
This course teaches students to use state-of-the-art financial and economic theories to make rational executive-level financial decisions. It provides the students with an understanding of the critical inter-relationships between the finance, accounting, production, marketing, and management functions of the firm.

**FIN 5515 Managerial Economics**
This course studies the relationships between the economic theory and system as a whole and the ways in which their functioning is affected by the behavior of the interdependent sectors of which they are composed. Students will explore the major factors and determinants of economic prospects relevant to profit-maximizing production and pricing decisions for the firm. Prerequisite: Admission to executive MBA program.

**FIN 5532 Financial Management**
An introduction to the role of financial management through the development of a conceptual framework appropriate for financial decision making. Generally, financial management is charged with the responsibility for obtaining and effectively utilizing the funds necessary for the operation of an enterprise. As such, the conceptual framework includes elements of financial planning (financial analysis, cash budgeting and profit planning), capital budgeting (rate of return and cost of capital), and basic considerations of alternative sources of funds. Prerequisites: ACCTNG 5517, DSOM 5508, FIN 5501, or equivalents.

**FIN 5550 Advanced Financial Management Theory And Policies**
Advanced financial management covering topics such as working capital, financial structure, cost of capital, dividend policy and valuation. Discussions include both financial theory as well as financial policy. Includes exposure to literature central to the development of finance theory. Prerequisite: Six hours of finance coursework beyond FIN 5532 or equivalent.

**FIN 5551 International Financial Management**
This course analyzes present and future international financial market conditions and extends the decision-making tasks of financial management into the context of problems of the international and foreign financial systems. The financial constraints of the international business environment and their effect on standard concepts of financial management are studied along with international currency flows, capital structure problems, working capital management, foreign investment, and international banking practices. Prerequisite: FIN 5532 or equivalent.

**FIN 5552 Global Financial Markets and Institutions**
Students are introduced to global financial markets and institutions. Topics include equity, debt, commodity, housing, and foreign exchange markets both in the U.S. and globally. The course explores the effects of monetary and fiscal policy, with emphasis on past and current global financial crises, financial restructuring and reforms, as well as the interrelationships between financial and real economies. Prerequisites: FIN 5532 or equivalent.

**FIN 5553 Investment Analysis**
Development of a theoretical framework applicable to the solution of problems related to creation and management of the investment portfolio. Consideration is given to the analysis of risk, functions of security markets, sources of information, evaluation of securities, and measurement of investment return. Prerequisite: FIN 5532 or equivalent.

**FIN 5556 Management Of Financial Intermediaries**
This course addresses the management operations of selected financial intermediaries including commercial banks and thrift institutions. Attention is given to asset-liability structure, the development and delivery of financial services, institutional structure, legal and regulatory factors, and the dynamics of the competitive environment. Prerequisite: FIN 5532 or equivalent.

**FIN 5557 Derivative Securities**
This course is designed to introduce students to the basic principles of financial risk management. The student should develop a working knowledge of issues regarding both the theoretical valuation and application of derivative securities. Applications will focus on techniques designed to manage financial risks in the corporate environment. Specifically, the course will focus on using futures, options, and swaps to hedge financial risks. Valuation issues will be explored to identify theoretical pricing fundamentals that can be applied toward valuing newly developed securities. Prerequisites: FIN 5501, FIN 5532, DSOM 5508, and ACCTNG 5517, or equivalents.

**FIN 5559 Strategic Financial Management**
This non-quantitative, readings-based course seeks to impart the latest concepts in strategic financial theory and rational economic thought. Major financial and economic developments such as signaling theory and agency are applied to a wide variety of contemporary problems facing businesses, governments, and individuals. Prerequisites: FIN 5532 or equivalent.
FIN 5560 Financial Modeling
The primary objective of this course is to introduce students to some of the fundamental quantitative methods used in investment analysis. The student should develop a working knowledge of measuring risk and return, probability theory, sampling and estimation, hypothesis testing, correlation analysis, regression and time series analysis. The course will emphasize experimental learning by applying these concepts to real data in a spreadsheet environment. Prerequisites: Completion of introductory coursework in accounting, economics, statistics and finance.

FIN 5561 Financial Statement Analysis
Students will take an in-depth look at the external financial statements that are prepared by corporations, including the tools needed to organize, summarize, and understand corporate financial data for use in decision making. Ratio analysis, trend analysis, earnings forecasting, bankruptcy predictors statistical methods important to finance, and financial data bases are among the topics that will be covered. Prerequisites: Completion of introductory coursework in accounting, economics, statistics, and finance.

FIN 5562 Fixed Income Analysis
The primary objective of this course is to provide an overall view of the role of debt markets in the modern economy. The course will cover the characteristics of instruments traded in money and capital markets; determinants of and the relationships between different security prices; and international aspects of financial markets. Topics include: valuing fixed income securities, managing interest rate risk, interest rate theory, the organization of bond markets and the structure and pricing theory underlying the mortgage-related fixed income market. Prerequisites: Graduate standing in the Bloch School and completion of the FIN 5502 or its equivalent.

FIN 5563 Valuation/Mergers and Acquisitions
The primary objective of this course is to introduce students to techniques used to value both exchange-traded and private firms. Students should apply these techniques to cases involving mergers and acquisitions, initial public offerings private firm valuation and the valuation of a publicly traded stock. Prerequisites: completion of introductory coursework in accounting, economics, statistics and finance.

FIN 5564 Portfolio Management
The primary objective of this course is to introduce students to some of the fundamental portfolio management tools used by practicing investment professionals. The student should develop a working knowledge of issues regarding portfolio construction, asset allocation, mean-variance optimization, performance measurement, and client relationship management. Prerequisites: completion of introductory coursework in accounting, economics, statistics and finance.

FIN 5565 Alternative Investments
The primary objective of this course is to introduce students to investing in alternative assets. The student should develop a working knowledge of various types of alternative investments and how they impact the risk-return profile of a portfolio. The course will cover investments in hedge funds, private equity, real estate, commodities, real assets, energy, and infrastructure. Prerequisites: Completion of introductory coursework in accounting, economics, statistics and finance.

FIN 5568 Organizational Finance
Gives students a thorough introduction to financial management that blends appropriate amounts of relevant theory with practical application. Topics include discounting techniques and applications, evaluating capital expenditures, estimating cost of capital, and valuing stocks and bonds. Prerequisite: Admission to the Executive MBA program.

FIN 5580 Organizational Valuation & Financial Modeling I
This course will cover the concept of risk and reward and that to eliminate risk is to eliminate reward. We will delve into how management considers the entity's risk appetite in evaluating strategic alternatives, setting related objectives and developing mechanisms to manage related risks. Prerequisites: Admission to Executive MBA program.

FIN 5582 Seminar In Finance
Advanced work in financial management, investment analysis, and financial markets and institutions will form the basis for the Seminar. Each topic selected will provide the opportunity for an investigative study on the part of the student. Major problems, hypotheses, and cases, together with the literature addressing the specific topic, will serve as the springboard for classroom activity. Both written and oral reports are required. Prerequisites: FIN 5532 or equivalent, and consent of the instructor.

FIN 5587 Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisite: Consent of the instructor

FIN 5595 Internship
An opportunity for students to integrate their academic studies via employment with a business/organization in the community.
Prerequisite: admission only by prior approval and consent of instructor.

FIN 5597 Independent Study
Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

FIN 5899 Required Graduate Enrollment

Health Administration (HLTH-ADM)
HLTH-ADM 555 Topics In Health Services Administration
To flexibly treat the variety of strategies, information, and techniques in health services administration, these courses will be offered in variable credit hour segments. Each semester combinations of one and two hour courses would be offered around traditional and emerging topics. An initial "basics" series will be offered on health law, epidemiology, and public health administration.

HLTH-ADM 5571 Financial Management Issues: Health & Human Services Organizations
This course is intended to provide an overview of the financial management problems of health and human services organizations. A broad range of topics is examined: financial statements, ratio analysis, cost accounting, reimbursement and pricing, management of working capital, budgeting and programming, capital financing, and cash management.

HLTH-ADM 5577 Health Service Administration And The Health Professions
The development of the health professions and occupations is examined as their internal and external relationships influence the structure of health care organizations and the services provided to clients. The focus of the course is on problems that administrators may encounter as they attempt to negotiate services for clients, build professional coalitions, and provide leadership within or outside health care institutions.

HLTH-ADM 5581 The Evaluation And Control Of Health Services
This course focuses on developing evaluative skills associated with controlling the level and costs of health services. Epidemiologic concepts are introduced using clinical and community health examples. The concepts of "at-risk" clients and populations are reviewed, and various attempts to measure risk are assessed. Issues relating to quality assurance are discussed, along with several examples of cost-effectiveness analysis.

HLTH-ADM 5586 Independent Study
Independent study and research in areas of special interest under individual faculty direction.Prerequisite: Consent of instructor
HLTH-ADM 5587 Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisite: Consent of the instructor

HLTH-ADM 5595 Internship
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent to the instructor.

Management Information Systems (MIS)
MIS 500PS Special Topics Umkc

MIS 501PS Special Topics Umkc

MIS 5503 Management Information Systems
A survey of topics concerning information technology management in the twenty-first century. The course examines information technologies as they influence the structure and processes of organizations, and economies, and as they influence the roles and techniques of management.

MIS 5529 Decision Support Systems
Information systems to support decision makers in organizations. This course focuses on influences of cognitive biases and group think on decision makers. Identification of both potential uses of information technology to support decision makers and potential effects of information technology on the decision making processes, and may include a number of computer-oriented assignments.

MIS 5540 Information Technology as a Strategic Tool
This course examines the critical linkage between an organization's business, cultural, and information technology (IT) strategies. In organizations today, information technology has become a key component in accomplishing strategic and operational goals. The course provides concepts and a framework for understanding and enhancing the role IT can play in innovation, change, and continuous organizational learning. Prerequisite: Admission to the Executive MBA program.

MIS 5552 Data Base Management
Data administration, including theory of relational databases and projects using relational data management packages. The course looks at data modeling and information engineering, entity-relationship modeling, database design, normalization, data dictionaries, distributed databases, database servers, data quality assurance, data integrity, SQL, and may include a number of computer-oriented assignments.

MIS 5554 Systems Analysis, Design And Engineering
This course introduces tools for documenting information system requirements and design and implementation methods; organization of software projects; system specifications, documentation and diagramming standards; programming languages and methodology; costs and schedule estimation, project management; program verification, and internal control issues.

MIS 5558 Management And Economics Of Computing
Topics to be covered include procurement and management of computer systems, economics of hardware and software, software acquisition, RFQs, RFPs, contract terms and conditions, end-user computing; capacity planning; contribution of computing to business objectives, control, audit, and security of information technology; legal and ethical perspectives; and international issues.

MIS 5597 Independent Study
Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

MIS 5899 Required Graduate Enrollment

Management (MGT)
MGT 5501 International Business Environment
The aim of this course is to provide a broad introduction of the international business environment. Students will develop understanding of different economic, cultural political and legal environments affecting international business activities. They will further explore why international trade and government interventions occur among and across countries and how world financial institution have developed historically. Prerequisites: Completion of introductory coursework in accounting, economics,
statistics and finance.

**MGT 5502 Leadership in Organizations**
This course focuses on how organizations work and how leaders can help them work better. Its goal is to provide ideas, tools, and tactics that will help students become more effective leaders. The course is designed to challenge students conceptually through readings, discussions, and developmental assessments, and to challenge at the level of self-awareness and action through teamwork, reflective activities, role plays, case applications, ad hoc "leadership challenges".

**MGT 5503 Leadership Residency**
This course introduces students to fundamentals of business and effective leadership practice by looking at two different academic areas. Team and Community Building focuses on the fundamentals of collaborative teamwork and basic concepts in the program's leadership curriculum. The other area, Financial Decisions and Societal Goals, overviews approaches to management strategy rooted in financial modeling and analysis. Prerequisite: Admission to Executive MBA Program

**MGT 5504 Immersion in Legal and Ethical Management of the Enterprise**
This course will introduce students to some of the common legal and ethical issues that confront entrepreneurial businesses and non-profit organizations. Students will be exposed to the major differences between U.S. and international approaches regarding these issues. Working individually and in groups, students will be asked to solve problems regarding business formation, employment, intellectual property, contract formation and dispute resolution. Students will demonstrate their understanding by writing about real-world examples involving the legal and ethical concepts covered in the course. Offered: Every Fall and Spring

**MGT 5505 Organizational Behavior**
A study of individual, group, and organizational behavior and processes. This course examines social and behavioral sciences methods and theories which apply to the understanding of administrative social systems. Classroom activities will utilize lectures, laboratory training, and clinical cases.

**MGT 5506 Contract Negotiation And Dispute Resolution**
This course surveys the conceptual framework for negotiating legally binding contracts and examines contemporary institutions and processes for resolving contractual disputes. Particular attention will be given to identifying and appreciating strategies, practices, and specific rules by which binding contractual rights and duties are determined in the United States and in international jurisdictions. Working independently and in teams, students will assimilate the legal rules and negotiation strategies and apply them to common business transactions and disputes.

**MGT 5507 Human Capital Management**
This course seeks to provide managers with knowledge, skills, and resources to effectively manage human capital in organization of all sizes. It presents an overview of the theory, research, and practices used to strategically align HR policies and practices with the organization’s overall business goals. The course highlights how HR policies and practices can support business objectives in a diverse, global environment while supporting ethical principles. Within a strategic HRM framework, functional areas of staffing, training and development, performance management, total rewards (compensation and benefits), and managing employment relationships are covered. Offered: Every Fall and Spring

**MGT 5508 Law Of Business Associations**
Working individually and in teams, students study the legal rules that govern most common business relationships. These include the rules for creating and managing agency and partner relationships, LLC and other new joint ventures, as well as public and closely-held corporations. Student teams follow local public companies as they prepare and conduct their annual meetings and conduct mock negotiations to form a new business venture.

**MGT 5510 Legal And International Environment Of Business**
This course provides an essential introduction to the domestic and international environment of business. Particular attention is given to the comparative historical development, cultural, economic, legal and political context for the conduct of business in the U.S. and abroad. Topics include international trade; international management; alternative modes of international operations; international finance and exchange rates; international marketing; international human resources; international business strategy and protection of property interest, including worldwide protection of intellectual property, private contracts, multilateral agreements, dispute resolution systems and the influence of government trade.

**MGT 5513 Economic Policy And Managerial Control**
Students will study the analysis of the industrial foundations and economic institutions of modern times; the politics of industrial control, including power relationships in economic nationalism and planning and theory of managerial industrialism and business enterprise.

**MGT 5516 Leading Teams**
This course is designed to enhance the student's understanding of designing, forming, developing, leading, and evaluating high-
performing teams in traditional and virtual organizations. In-class projects will facilitate students' assessment and application of
their own talents to the arts of member selection, coaching, and trust building to engage team members in productive and ethical
group processes to achieve successful outcomes. Cases will be used to diagnose and potentially solve team difficulties
considering intra-team, organizational, and extra-organizational factors. Prerequisite: MGT 5505 or equivalent.

MGT 5517 Leading Through Influence and Persuasion
This course challenges students to think about power dynamics in organizations and the array of influence approaches leaders
develop and use to build support for their ideas and strategies. Using reading, case studies, and self-reflection tools, this course
engages students in critical thinking about business scenarios that require a variety of leader influence strategies beyond
traditional "command and control" approaches. Through exploration of concepts such as mapping the terrain, building social
capital, and managing across, students develop a toolkit of ethical strategies for enhancing their organizational credibility and
influence. Prerequisites: Leadership in Organizations (Core MBA Course)

MGT 5518 Leadership & Motivation
The course explores leadership as a relationship between leaders and those they are leading that enables people to work together
in the service of shared goals. The course focuses on five basic tasks of leadership: (1) diagnosis-understanding what's
happening; (2) shaping purpose and values; (3) enlisting and engaging people (including coaching, building high-performance
cultures, motivating and inspiring); (4) sustaining momentum; (5) reflection and assessment.

MGT 5519 Conflict Management and Negotiation Strategies
This course explores the nature of successfully managing conflict in organizational settings, as well as the skills needed to be an
effective negotiator. In this course, students will learn the difference between functional and dysfunctional conflict, how to
stimulate functional conflict, various styles for managing conflict, ways to identify the desired outcomes of conflict, how to
prepare for negotiations, various dispute resolution techniques, and the characteristics of effective negotiators. The course uses a
variety of tools - readings, case studies, videos, and guest speakers - to engage students in real business scenarios related to
managing conflict and negotiation strategies. Prerequisites: Human Capital Management.

MGT 5520 Strategic Benefits Management
This course provides a foundation for understanding how benefit plans can be strategically designed to attract, retain, and
motivate workers. In addition to traditional health and welfare, and paid time off benefits, offerings related to work/life balance,
wellness, benefit flexibility, and organizational culture will be included. Regulatory issues, such as tax and statutory compliance
will be discussed. Prerequisites: Leadership in Organizations.

MGT 5521 Building Human Capital
This course presents strategies managers can utilize to enhance workers' knowledge, skills, and abilities in order to provide the
talent needed to achieve the organization's mission and goals. Included are effective performance management techniques,
training and development systems, and methods of effective supervision. Prerequisites: Human Capital Management.

MGT 5531 Leadership, Strategy and Human Resources
Focuses on the leader as a catalyst in developing high-performance, market-based cultures and as a human resource strategist in
marshalling the workforce. Geared to the general manager, the course presents ideas and tools for building, bonding, and linking
the workforce to accomplish the organization's mission. Topics include ideas and tools for identifying, recruiting, and retaining
talent; developing and coaching subordinates; appraising and rewarding performance; and delegating to balance control and risk.
Prerequisites: Admission to Executive MBA program.

MGT 5533 Leading and Managing Change
This course provides students with analytical skills and insights to more effectively manage and lead change, especially within
those organizations characterized by complexity and/or uncertainty. Using a variety of vehicles-including case studies, articles,
and speakers-the course engages students in timely, real change scenarios and associated management challenges, such as
adaptation in changing markets; turnarounds in troubled businesses; integrative change in acquisitions, and process change in
stable businesses. Prerequisites: Leadership in Organizations (Core MBA course)

MGT 5537 Competitive Strategies
Study of the processes of formulating and implementing competitive management strategies. Analytical techniques appropriate to
the firm, the market or the industry will be emphasized. Major individual and/or group papers analyzing existing organizations
will be required. Prerequisites: Must be taken in the student's final semester of the program.

MGT 5538 Strategic Management
The study of the formulation and evaluation of strategy, including industry analysis, strategic positioning, and the boundaries of
the firm. Students address the capacity of executive leadership to create and communicate a clear direction for a company's
future. Prerequisites: Admission to the Executive MBA Program.

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MGT 5545 International Management
Examination of the management of contemporary international business organizations through a study of the political, economic, social and technological factors and their relationship and impact upon the administrative activities and strategies of the international firm.

MGT 5546 Seminar in International Management
This course focuses on the issues that business organizations face in a global economy. The instructor will introduce global strategic decisions via case studies. Prerequisite: MGT 5545

MGT 5547 Global Initiatives in Management
Examines the management of contemporary international business organizations in the global economy. The course overviews the interrelationship and impact of political, economic, social, and technological factors, together with the complex challenges of strategy and execution in global companies. It includes a period of international residency. Prerequisite: Admission to the Executive MBA program

MGT 5548 International Study in Business
This course is designed to provide a study-abroad experience for the student. The course involves three components: study if international business through on-campus lectures and discussions; travel to a foreign country for visitations to business firms, government organizations, and cultural sites; and critique sessions of the international learning experience after travel completion. Restrictions: Special application and selection process prior to enrollment.

MGT 5549 Leadership And Organizations
Focuses on how organizations work and how leaders can set direction, marshal resources, and build support to move initiatives forward. The course provides tools and tactics for assessing organizations needs and constraints through multiple lenses, and assessing one's own leadership strengths and weaknesses for development and alignment with organization needs. Prerequisite: Admission to Executive MBA Program

MGT 5550 Strategic Human Resources
This course will provide an overview of the theory, research and practices used to strategically align human resource policies and practices with the overall goals and objectives of organizations. The course will highlight ways in which HR policies and practices affect and are affected by organizations' environments and culture. Emphasis will be placed on high performance and innovative work practices. Particular attention will be given to assessing internal and external conditions and contexts in which HR policies and practices maximize effectiveness.

MGT 5551 Strategic Staffing
This course presents frameworks and applications for achieving optimal person-organization fit and person-job fit within organizations. The importance of strategically planning and implementing recruitment and selection processes will be addressed as it relates to various organizational contexts, including environmental threats and opportunities, organizational size, structure, and climate.

MGT 5552 Total Rewards Management
Total Rewards Management presents both theory and practice for designing effective rewards systems within organizations. The development of base pay and incentives and how they can be linked to performance will be covered. Characteristics of the work environment, such as recognition and development opportunities will also be considered in terms of their contribution to the total reward system.

MGT 5553 Leadership Accountability and the Legal Implications
Highlights the accountabilities of leaders and the challenges they face in the rapidly changing business environment. The course studies the political, social, ethical, and global environment in which American business organizations operate and the impact on today's leaders. Topics include creating and maintaining affiliate relationships and joint ventures, as well as prohibitions in anti-
competitive behavior, protection of intellectual property, operating within a regulated environment, and securities law. Prerequisite: Admission to Executive MBA Program.

**MGT 5570 MBA Capstone-GLOBAL Management Consultancy**
An integrative global management consulting experience for a real world organization that applies analytical skills in the areas of finance, marketing, information systems, supply chain management, human resources, leadership, innovation, international, and strategy. Course deliverables include written and oral reports for the client organization. The course requires travel to visit client organization's operations. Prerequisites: MGT 5501 or MGT 5545. Students in their last semester of the MBA Program, MS in Accounting, Master of Public Administration, MS in Finance, MS in Entrepreneurial Real Estate, or MS in Global Entrepreneurship. Students must apply to the program, admission is competitive; there is no guarantee of acceptance.

**MGT 5571 Influence, Persuasion and Change**
Presents ideas, strategies, and tools for leading change in complex organizations. This course challenges students to think about the execution of change strategies through assessment or organizational power dynamics and appropriate influence styles for achieving results. Emphasis is placed on analyzing these attributes and skills most critical for building influence, especially in change initiatives, and on defining an ethical approach to leading, influencing, and persuading others. Prerequisites: Admission to the Executive MBA program.

**MGT 5572 MBA Capstone-The Capstone Consulting Project**
An integrative management consulting discipline for a real world organization that requires application of conceptual models and analytical skills in multiple disciplines including areas such as finance, marketing, information systems, supply chain management, human resources, leadership innovation, international, and strategy. Course deliverables include written and oral reports for the client organization. The course requires interaction with senior managers in the client organization with anticipation of in-person or virtual visits to the firm. Prerequisites: Course is to be taken in the student's final semester of the MBA program and is open to students in the MSA, MPA, MSF, MSERE, or MSGE programs with consent of instructor and permission of the programs.

**MGT 5574 MBA Capstone-Leading and Managing Change**
This course challenges students to apply concepts and models of leadership and strategy to timely, real-world issues and problems across business and functional areas in organizations. Using readings, class discussion, field-based leadership projects, and peer consulting, the course will emphasize the integrating perspective of the general manager and will explore cross-functional vision, decision-making, and execution for leadership effectiveness. Prerequisites: Available to students in the MSA, MPA, MSF, MSERE of MSGE programs with consent of instructor.

**MGT 5587 Special Topics**
The study of a contemporary management topic of interest. This course is designed to facilitate one of two purposes; an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisite: consent of instructor.

**MGT 5595 Internship**
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

**MGT 5597 Independent Study**
Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

**MGT 5899 Required Graduate Enrollment**

**Marketing (MKT)**

**MKT 5501 Marketing Management**
This course goes beyond the explanation of basic concepts of marketing. The goal is to present a strategic and integrative perspective of marketing in the contemporary digital, global and competitive marketing environment. The emphasis is on the interface between an organization's objectives, capabilities, resources and marketplace needs and opportunities. Examples of major topics to be covered are market-oriented philosophy and corresponding strategy, customer relationship management, branding and brand equity, services marketing, marketing ethics, defensive and offensive marketing strategies, product positioning, distribution and pricing strategies. Offered: Every Fall and Spring

**MKT 5531 Contemporary Marketing Management**
An advanced survey course that emphasizes the core marketing decision variables: product, price, place, and promotion. The emphasis is on the interface between an organization's objectives, capabilities, resources and marketplace needs and
opportunities. The subject matter is applicable to firms that produce and/or services, and for-profit and non-profit organizations. Topics include market-oriented problem solving, consumer behavior, marketing ethics, competitive strategy, and product management in domestic and global environments.

MKT 5539 Digital (and Direct) Marketing
This course focuses on front-end and back-end marketing activities using digital as well as direct marketing tools. Major topics include developing an overall digital marketing strategy that includes inline and traditional media, online marketing, affiliate marketing, social media, web analytics and mobile marketing. The course also focuses on developing and maintaining relationships between the firm and customers and between the firm and other suppliers. Prerequisite: MKT 5501 or equivalent.

MKT 5539 Digital (and Direct) Marketing
This course focuses on front-end and back-end marketing activities using digital as well as direct marketing tools. Major topics include developing an overall digital marketing strategy that includes inline and traditional media, online marketing, affiliate marketing, social media, web analytics and mobile marketing. The course also focuses on developing and maintaining relationships between the firm and customers and between the firm and other suppliers. Prerequisite: MKT 5501 or equivalent.

MKT 5555 International Marketing
This course focuses on marketing problems confronting international business managers and the ways they may be analyzed and resolved. The course content includes concepts and techniques useful in international marketing; effects of national differences on marketing practices; organization for international marketing; and strategy formulation for international markets. Prerequisites: MKT 5501 and MGT 5501 or equivalent.

MKT 5555 International Marketing
This course focuses on marketing problems confronting international business managers and the ways they may be analyzed and resolved. The course content includes concepts and techniques useful in international marketing; effects of national differences on marketing practices; organization for international marketing; and strategy formulation for international markets. Prerequisites: MKT 5501 and MGT 5501 or equivalent.

MKT 5560 Buyer Behavior
A review of behavioral science concepts applicable to an understanding of constituent decision making. Special emphasis is placed on applications of these concepts, by the student, to problems of offer planning, pricing, distribution and promotion. Prerequisites: MKT 5501 or equivalent.

MKT 5560 Buyer Behavior
A review of behavioral science concepts applicable to an understanding of constituent decision making. Special emphasis is placed on applications of these concepts, by the student, to problems of offer planning, pricing, distribution and promotion. Prerequisites: MKT 5501 or equivalent.

MKT 5561 Promotional Strategies In Marketing
Emphasis will be placed on the organization's persuasive communications to customers and prospective customers within a framework of the system of distribution. The central focus concerns how marketing management allocates the promotional mix within the organization's total marketing program. Topics will include the following: 1) promotional mix, 2) campaign strategies, 3) campaign coordination and 4) follow-up control of promotional programs. Prerequisite: MKT 5501 or equivalent.

MKT 5561 Promotional Strategies In Marketing
Emphasis will be placed on the organization's persuasive communications to customers and prospective customers within a framework of the system of distribution. The central focus concerns how marketing management allocates the promotional mix within the organization's total marketing program. Topics will include the following: 1) promotional mix, 2) campaign strategies, 3) campaign coordination and 4) follow-up control of promotional programs. Prerequisite: MKT 5501 or equivalent.

MKT 5562 Marketing Research
This course acquaints the student with the special problems of understanding and applying various measurement techniques to marketing problems. Specific topics to be investigated will depend upon the instructor and the students' areas of interest and specific competencies. Prerequisites: MKT 5501 and DSOM 5505, or equivalents.

MKT 5562 Marketing Research
This course acquaints the student with the special problems of understanding and applying various measurement techniques to marketing problems. Specific topics to be investigated will depend upon the instructor and the students' areas of interest and specific competencies. Prerequisites: MKT 5501 and DSOM 5505, or equivalents.

MKT 5565 Marketing Management
Examines the role of marketing in driving profitable revenue growth in companies The focus is placed on tools and approaches to
analyzing and understanding customer needs— including the roles of market research and brand equity— and the development of integrated marketing plans to deliver to those needs. Prerequisite: Admission to Executive MBA Program.

**MKT 5570 MBA Capstone-Developing and Maintaining a Customer Centric Organizational Culture**
This course begins by providing students a historical view of developing and maintaining a customer centric organizational culture and the impact of same on employees, suppliers, strategic partners and customers. Students are provided practical guidelines and actions and are required to develop an organizational culture plan. Prerequisites: Available to students in the MSA, MPA, MSF, MSERE, or MSGE programs with consent of instructor.

**MKT 5575 Advanced Marketing Strategy**
This course focuses on advanced marketing skills and practical techniques for defining and meeting the needs of the chosen market. The emphasis is on key drivers of marketing effectiveness, including creating a market-oriented culture, customer-focused information systems, the relationship of various components of marketing, and the response to marketing variables. A variety of pedagogical approaches, including applied projects, may be employed. Prerequisites: MKT 5501 or equivalent.

**MKT 5575 Advanced Marketing Strategy**
This course focuses on advanced marketing skills and practical techniques for defining and meeting the needs of the chosen market. The emphasis is on key drivers of marketing effectiveness, including creating a market-oriented culture, customer-focused information systems, the relationship of various components of marketing, and the response to marketing variables. A variety of pedagogical approaches, including applied projects, may be employed. Prerequisites: MKT 5501 or equivalent.

**MKT 5587 Special Topics**
The study of a contemporary topic of interest. This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisite: Consent of the instructor.

**MKT 5595 Internship**
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

**MKT 5597 Independent Study**
Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

**MKT 5899 Required Graduate Enrollment**

**Public Administration (PUB-ADM)**

**PUB-ADM 500PS Special Topics UMKC**

**PUB-ADM 5506 Management in Context**
This course introduces students to the context of management in business, public, and nonprofit organizations with a specific emphasis on the political, regulatory, social, natural and global environment of management. Students who successfully complete this course gain an understanding of organizations and management that can be utilized in day-to-day work environments, apply theories and concepts to identify organizational issues, problems, and/or ethical considerations, and strengthen their ability to integrate and understand course content in a graduate program within the Bloch School of Management. Working individually and in groups, students will be asked to explain in written and oral formats, and in general and specific terms, what an organization is, how it works, and how it relates to them, to other organizations, and the environment.

**PUB-ADM 5510 Research Methods In Public Administration**
This introductory course focuses on quantitative empirical research design and statistical analyses in relation to public administration issues and concerns.

**PUB-ADM 5523 Public Policy Context for Business Decisions**
This course is designed to provide intensive exposure to the forces and personalities in Washington, D.C. that shape America's business policy. EMBA participants learn how to understand and anticipate the impact of public policy on their businesses and how to become more effective participants in the national decision-making process. Prerequisites: Admission to the Executive
MBA program.

**PUB-ADM 5525 Financial Accountability And Policy Development**
Modern fiscal policy and its administrative implications to planning, budgeting, revenue administration, accounting and appraisal, and the process for assuring accountability in the development, timing, and execution of public programs. Prerequisite: PUB-ADM 5510 or equivalent.

**PUB-ADM 5526 The Politics Of Administration**
This course will introduce the subject of public administration from a political perspective. Special attention will be given to an examination of the administrative branch of government. More specifically, the course will focus on the demands directed to administrators from various sectors of the political system, ways in which administrators respond to those demands, and methods available for the analysis of public policies that help us assess the impacts that flow from administrators' actions.

**PUB-ADM 5530 Capstone Seminar In Public Administration**
This course examines theories of public organizational design, structure and change, including various issues in the administration of public organizations. Questions of professional ethics and management in the public interest are also considered. This is the final course in the MPA core curriculum. Prerequisites: PUB-ADM 5525, PUB-ADM 5526, PUB-ADM 5544, PUB-ADM 5548 (or equivalents), or concurrent enrollment. Note: Health-services students can substitute HLTH-ADM 5571 for PUB-ADM 5525, and HLTH-ADMN 5578 for PUB-ADM 5544.

**PUB-ADM 5535 Urban Policy And Administration**
An examination of the formulation and administration of policies by urban governments. The course examines (a) the historical and intergovernmental contexts for decision making by urban governments, (b) the governmental forms and political processes employed in making these decisions, and (c) the various urban problems and service delivery issues which require decisions in the contemporary city.

**PUB-ADM 5536 Managing Urban Economic Development**
This course explores what managers in the public, nonprofit and private sectors need to know about urban economic development. Topics include (a) theories of urban economic development, (b) varying forms of development (e.g., attraction of new industries, central business district development, neighborhood economic development), (c) policy managerial tools for stimulating development, and (d) issues of equity in economic development.

**PUB-ADM 5538 Comparative Urban Administration**
An analysis of urban administration and planning in different comparative political, economic, and cultural settings. Analytical techniques will be applied to case studies of selected urban administrative processes involving American and other cities.
techniques will be applied to case studies of selected urban administrative processes involving American and other cities.

**PUB-ADM 5539 Urban And Regional Planning For Urban Administrators**
This course is designed to provide students in urban administration with a comprehensive overview of the planning process. Course topics include a review of planning and the problems of effective planning implementation.

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This course is designed to provide students in urban administration with a comprehensive overview of the planning process. Course topics include a review of planning and the problems of effective planning implementation.

**PUB-ADM 5544 Public Policy Evaluation and Analysis**
Survey of the tools and procedures for evaluating and analyzing policies and programs in the public sector, including nonprofit and human services organizations. Consideration of such topics as definition of goals, developing measures of effectiveness, evaluation research designs, benefit-cost analysis, and the special problems of rational analysis in a political environment. Prerequisite: PUB-ADM 5510 or equivalent.

**PUB-ADM 5548 Leadership For Public Service**
The two core purposes of this course are for students to learn about effective and ethical leadership, and for students to understand and develop their own capacity for leadership. The course is organized around three general themes: 1) leadership as relations with subordinates, including issues of work motivation; 2) leadership as lateral relations, including organizational politics and conflict management and resolution; and 3) leadership as influence in the organization's environment.

**PUB-ADM 5551 Strategic Management In Nonprofit Organizations**
This is an advanced course in the nonprofit management emphasis. Following review of the legal and economic uniqueness of private, nonprofit organizations, the course helps students develop a strategic framework and apply the key concepts to the management of nonprofit entities. Recommended prerequisites: PUB-ADM 495 and PUB-ADM 5548 or equivalent.

**PUB-ADM 5551 Strategic Management In Nonprofit Organizations**
This is an advanced course in the nonprofit management emphasis. Following review of the legal and economic uniqueness of private, nonprofit organizations, the course helps students develop a strategic framework and apply the key concepts to the management of nonprofit entities. Recommended prerequisites: PUB-ADM 495 and PUB-ADM 5548 or equivalent.

**PUB-ADM 5552 Community Organizations And Public Policy**
This course includes examination of both neighborhood organizations and organizations intended to promote other communities of interest. In relation to neighborhood organizations, topics considered include the varieties of neighborhoods, the role of neighborhood organizations in local politics, the use of neighborhoods in administrative and political decentralization, and federal policy toward neighborhood issues. In relation to other community organizations, topics considered include the basis of such organizations, their roles in public affairs and their effects on policy processes.

**PUB-ADM 5552 Community Organizations And Public Policy**
This course includes examination of both neighborhood organizations and organizations intended to promote other communities of interest. In relation to neighborhood organizations, topics considered include the varieties of neighborhoods, the role of neighborhood organizations in local politics, the use of neighborhoods in administrative and political decentralization, and federal policy toward neighborhood issues. In relation to other community organizations, topics considered include the basis of such organizations, their roles in public affairs and their effects on policy processes.

**PUB-ADM 5553 Legal Framework & Financial Management Of Nonprofit Organizations**
Utilizing a comparative approach the course examines the legal basis and tax treatment of private, nonprofit organizations in the U.S. Related topics also considered include concepts of fund and cost accounting, budgeting processes, earned income strategies, employee compensation and benefits practices, laws and regulations affecting lobbying, competition with business and unrelated business income tax.

**PUB-ADM 5553 Legal Framework & Financial Management Of Nonprofit Organizations**
Utilizing a comparative approach the course examines the legal basis and tax treatment of private, nonprofit organizations in the U.S. Related topics also considered include concepts of fund and cost accounting, budgeting processes, earned income strategies, employee compensation and benefits practices, laws and regulations affecting lobbying, competition with business and unrelated
business income tax.

**PUB-ADM 5555 Topics In Nonprofit Fundraising**
In order to flexibly treat the variety of strategies and techniques of charitable fundraising, these courses will usually be offered in variable credit hour segments, covering traditional and emerging fundraising topics. Each semester, two two-credit-hour segments and two one credit-hour segments will be offered. The two credit hour courses - Organizing for Successful Fund Raising” and “Creating and Implementing the Annual Development Plan” - cover the basics of fund raising. The one-credit hour courses allow students to explore several different issues related to fund raising such as direct marketing and planned giving. These courses are recommended for nonprofit management students.

**PUB-ADM 5555A Topics In Nonprofit Fundraising: Organizing For Successful Fund Raising**

**PUB-ADM 5555B Topics In Nonprofit Fundraising: Creating & Implementing Annual Development Plans**

**PUB-ADM 5555C Topics In Nonprofit Fundraising: Direct Marketing & Direct Mail In Fundraising**

**PUB-ADM 5555D Topics In Nonprofit Fundraising: Planned Giving and Major Gift Solicitation**

**PUB-ADM 5555E Topics In Nonprofit Fundraising: Contemporary Trends/Ethical Issues In Fund Raising**

**PUB-ADM 5555F Topics In Nonprofit Fundraising: Prospect Research And Proposal Writing**

**PUB-ADM 5555G Topics In Nonprofit Fundraising**

**PUB-ADM 5556 Innovation In Nonprofit Management And Leadership**
This course provides an opportunity for students in the nonprofit management specialization to examine “breaking” innovations
in nonprofit management and leadership. Intra- and inter-sectoral collaborative strategies and total quality management are illustrative examples. Other topics will be considered as warranted. This course is recommended for students who have completed PUB-ADM 5525, PUB-ADM 5548 (or equivalents), and at least six hours of nonprofit management coursework.

**PUB-ADM 5556 Innovation In Nonprofit Management And Leadership**
This course provides an opportunity for students in the nonprofit management specialization to examine "breaking" innovations in nonprofit management and leadership. Intra- and inter-sectoral collaborative strategies and total quality management are illustrative examples. Other topics will be considered as warranted. This course is recommended for students who have completed PUB-ADM 5525, PUB-ADM 5548 (or equivalents), and at least six hours of nonprofit management coursework.

**PUB-ADM 5565 Topics In Urban Administration**
To flexibly treat the variety of strategies, information, and techniques in urban administration and leadership, these courses will be offered in variable credit hour segments. Each semester, courses will be offered around traditional and emerging topics. An initial ""basics"" series will be offered on community development organizations, urban economic development and community development strategies.

**PUB-ADM 5565A Community Economic Development: The Planning Context**

**PUB-ADM 5565A Community Economic Development: The Planning Context**

**PUB-ADM 5565B Community Economic Development Tools & Techniques**

**PUB-ADM 5565B Community Economic Development Tools & Techniques**

**PUB-ADM 5565C Implementing Effective Community Economic Development**

**PUB-ADM 5565C Implementing Effective Community Economic Development**

**PUB-ADM 5570 Diversity In The Workplace**
This course explores the many issues raised by the growing diversity of backgrounds (e.g., race, gender, culture) employees bring to the workplace. The course will examine diversity issues including demographics, relevant legislation, values questions, demands on management, and effects on service delivery to clients. To better illustrate the issues, some class sessions will feature guest lecturers representing a diversity of backgrounds and work settings.

**PUB-ADM 5570 Diversity In The Workplace**
This course explores the many issues raised by the growing diversity of backgrounds (e.g., race, gender, culture) employees bring to the workplace. The course will examine diversity issues including demographics, relevant legislation, values questions, demands on management, and effects on service delivery to clients. To better illustrate the issues, some class sessions will feature guest lecturers representing a diversity of backgrounds and work settings.

**PUB-ADM 5581 Seminar In Urban Administration**
Advanced work on special topics in urban administration. Topics will vary. Prerequisite: PUB-ADM 5535.

**PUB-ADM 5585 Seminar In Public Affairs**
Advanced work on special topics in public affairs.

**PUB-ADM 5585 Seminar In Public Affairs**
Advanced work on special topics in public affairs.
PUB-ADM 5585A Seminar In Public Affairs
Advanced work on special topics in public affairs.

PUB-ADM 5585B Seminar In Public Affairs
Advanced work on special topics in public affairs.

PUB-ADM 5585C Seminar In Public Affairs
Advanced work on special topics in public affairs.

PUB-ADM 5587 Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisite: Consent of the instructor.

PUB-ADM 5595 Internship Seminar
Combined classroom study and field internship. To be offered only when government agency internships approved by the Public Administration Committee are available. Prerequisite: 18 credit hours of completed courses.

PUB-ADM 5598A Supervised Research: Nonprofit Management

PUB-ADM 5598B Supervised Research: Public Works Administration

PUB-ADM 5598C Supervised Research: Urban Administration

PUB-ADM 5598G Supervised Research: Unspecified

PUB-ADM 5599 Thesis

PUB-ADM 5610 Inquiry In Public Administration And Affairs
This course is designed to provide Ph.D. students a thorough grounding in strategies of inquiry. Issues considered include competing metatheoretical paradigms and alternative conceptions of explanation in the social and policy sciences, the implications of such alternatives for empirical research, the variety and standards of qualitative and quantitative approaches to theory and research, theory construction, and research ethics. Contemporary problems in public administration and affairs research and theory are emphasized.
PUB-ADM 5610 Inquiry In Public Administration And Affairs
This course is designed to provide Ph.D. students a thorough grounding in strategies of inquiry. Issues considered include competing metatheoretical paradigms and alternative conceptions of explanation in the social and policy sciences, the implications of such alternatives for empirical research, the variety and standards of qualitative and quantitative approaches to theory and research, theory construction, and research ethics. Contemporary problems in public administration and affairs research and theory are emphasized.

PUB-ADM 5620 Literature Of Public Affairs And Administration
This course grounds the student in the central ideas of the public affairs and administration literature and in the prominent themes of the discipline. The course is offered in two versions: A, in which the political science approach to public affairs and administration is emphasized; and B, in which the organizational theory and behavior approaches to public affairs and administration are emphasized. Ph.D. students whose coordinating discipline is public affairs and administration are ordinarily expected to complete both versions. Prerequisites for PUB-ADM 5620A are: completion of PUB-ADM 5525, PUB-ADM 5526 and PUB-ADM 5544 (or equivalent graduate level courses) and consent of the instructor. Prerequisites for PUB-ADM 5620B are PUB-ADM 5530 and PUB-AMD 5548 (or equivalent graduate level courses), and consent of the instructor.

PUB-ADM 5620A Literature Of Public Affairs And Administration: Political Science

PUB-ADM 5620B Literature Of Public Affairs And Administration:Organizational Theory & Behavior

PUB-ADM 5699 Dissertation And Research In Public Affairs And Administration
Dissertation research and writing in the Public Affairs and Administration discipline. Prerequisite: Consent of instructor.

PUB-ADM 5899 Required Graduate Enrollment

PUB-ADM 5899 Required Graduate Enrollment

PUB-ADM 598E Supervised Research: International Management

Real Estate (RL-EST)
RL-EST 5556 Entrepreneurial Real Estate
This course covers the entrepreneurial process from conception to birth of the new business. It looks at both process and people involved in assessing ideas, exploring opportunities, and converting concepts into businesses. We will introduce theories and methodologies for new venture creation and evaluation. This course will take the proven methodology that made our IEI department one of the most respected in the world, and apply these concepts to the multitude of various entrepreneurial activities that exist in the real estate field.

RL-EST 5557 Urban Planning
Overview of forces and trends affecting community growth and change history, ecology, economics, demography, design and development pertaining to human settlement patterns and their interrelationship in the urbanization process, especially at the national, regional, townscape and neighborhood level.

RL-EST 5558 Capital Markets
The course examines the influence of capital markets on real estate by covering the structure and operation of the private and public, debt and equity real estate capital markets, as well as derivative markets that involve real estate. A thorough range of topics in equity real estate investment are examined including: private equity markets, private equity deal structuring, public and private real estate investment trusts (REITs), measuring risk and return; structuring optimal portfolios, portfolio valuation issues, valuing publicly traded real estate securities, performance evaluation and attribution, and real estate risk management.
techniques. This course also covers a variety of topics in commercial real estate debt markets including: the structure of the US mortgage finance system, and the valuation of mortgages and commercial mortgage backed securities. Offered: Every other summer

**RL-EST 5559 Corporate Real Estate**
This course concentrates on the decisions any business faces when it comes to finding a location/s in which to operate their business/e. It deals with financial and subjective decision making models to choose a location that will create the lease occupancy cost to the business owner as well as maximizing the operation of their business. Various modeling techniques will include Lease vs Lease Analysis; Lease vs Own Analysis, Location Factor Analysis standard lease provisions, construction management topics and public-private incentives and the impact on a corporate financial statement under the current regulations of FASB 13. Offered: Every other winter

**RL-EST 5571 Advanced Real Estate Finance**
The course explores advanced concepts about ownership issues, financing commercial real estate and analyzing a commercial real estate investment through the use of basic risk analysis models, financing strategies for investment real estate or development including an understanding of the secondary mortgage market and pass-through securities, and collateralized mortgage obligations. Prerequisites: FIN 5532

**RL-EST 5572 International Real Estate**
This course will demonstrate how the globalized economy impacts real estate decisions. It will discuss the dynamics of off-shore investments, including differences in political systems, economic systems and legal systems. The student will learn about differences such as real estate property types, land use controls and policies, taxation, ownership structures and investment vehicles, legal systems, finance, currency issues.

**RL-EST 5573 Real Estate Market Analysis and Feasibility Study**
This course will enable students to understand the steps used to determine the highest and best use of any parcel of real estate. Students will learn marketplace factors that influence supply and demand, demographic and psychographics information, basic design parameters used to maximize the utility of land, as well as the political process to consider when developing a parcel of land to it's highest and best use. Prerequisites: DSOM 5508 and FIN 5532

**RL-EST 5574 Contraction Means and Methods**
Course focuses on principles and techniques of construction project management, use of systems analysis, internal and external procedures, planning, programming, budgeting and staffing, controlling major projects, and emphasis on construction scheduling techniques with case application. Everything a real estate decision maker needs to know to retain, evaluate and maximize the relationship with contractors, planners, engineers and architects. The student will learn to identify specific building systems and determine the appropriateness of same for a building.

**RL-EST 5575 Real Estate Taxation**
This course concentrates on factors affecting real estate investments; legal forms of ownership, depreciation, tax basis, tax impacts on exchanges, syndications, real estate securities, and other federal laws affecting real estate.

**RL-EST 5576 Real Estate Property Management**
Explores the complexities of managing apartments, condominiums, office buildings, industrial property, and shopping centers. This course covers rental markets, development of rental schedules, leasing techniques and negotiations, repairs and maintenance, tenant relations, merchandising, selection and training of personnel, accounting, and owner relations.

**RL-EST 5577 Valuation**
Techniques of real estate valuation. Market analysis, legal and political analysis, and highest and best use analysis; in-depth exposure to the three approaches to valuation; market comparison, income, and cost; the role of valuation in real estate investment; government regulation of appraisers. Offered: Every other winter

**RL-EST 5578 Legal Context of Real Estate Decision Making**
This course introduces decisions involved in the development, ownership, and operation of commercial real estate and the legal issues associated with these decisions. Topics covered include: due diligence, loan application/brokerage agreements, zoning, easements, entitlements and condemnation actions, bankruptcy, commercial real estate insurance coverage, choice of business entity, income tax planning, and joint ventures.

**RL-EST 5579 Real Estate Capstone**
This course is a group simulation of an actual case in real estate that enables students to utilize all of their previous course experience on a real-world case in real estate. It is intended that this case study will enable students to appreciate the multiple facets of real estate, and the need to call upon the tools, concepts and skills taught in the analysis of the highest and best use of
the subject property.

**RL-EST 5587** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587A** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587B** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587C** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587D** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587E** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587F** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587G** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587H** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587I** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587L** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5587N** Special Topics
This course is designed to facilitate one of two purposes: an initial offering of a new course (prior to formal approval) or an initial and possible only offering of new topics. Prerequisites: Consent of the instructor.

**RL-EST 5595** Internship
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisites: Admission only by prior approval and consent of instructor.

**RL-EST 5597** Real Estate: Independent Study
Independent study and research in areas of special interest under individual faculty direction. Prerequisites: Preregistration consent of the instructor.

**RL-EST 5899** Required Graduate Enrollment
Law School
Law School Graduate Courses

Law (LAW)
LAW 300PS Special Topics Umkc

LAW 301PS Special Topics Umkc

LAW 302PS Special Topics Umkc

LAW 310PS Special Topics Umkc

LAW 400PS Special Topics Umkc

LAW 401PS Special Topics Umkc

LAW 402PS Special Topics Umkc

LAW 403PS Special Topics Umkc

LAW 410PS Special Topics Umkc

LAW 420PS Special Topics Umkc

LAW 500PS Special Topics Umkc

LAW 501PS Special Topics Umkc

LAW 502PS Special Topics Umkc

LAW 503PS Special Topics Umkc

LAW 504PS Special Topics Umkc

LAW 505PS Special Topics Umkc

LAW 510PS Special Topics Umkc

LAW 523 Federal Taxation

LAW 531 INTRODUCTION TO LAW & LAWYERING PROCESSES FOR LL.M. INTERNATIONAL STUDENTS
Introduction to legal reasoning; case analysis and synthesis; case research; structure and style in legal writing with emphasis on
expository writing, including office memoranda

**LAW 5311** INTRODUCTION TO LAW & LAWYERING PROCESSES FOR LL.M. INTERNATIONAL STUDENTS
Introduction to legal reasoning; case analysis and synthesis; case research; structure and style in legal writing with emphasis on expository writing, including office memoranda

**LAW 562** Agency

**LAW 590A** Directed Study And Research Internship

**LAW 600PS** Special Topics Umkc

**LAW 610PS** Special Topics Umkc

**LAW 622** Evidence II

**LAW 8501** Contracts I
 Formation and performance of simple contracts; consideration; express and constructive conditions, excuse of conditions; remedies for breach; contracts for benefit of third parties; assignment; impossibility of performance and discharge.

**LAW 8502** Contracts II
 Continuation of LAW 8501.

**LAW 8502** Contracts II
 Continuation of LAW 8501.

**LAW 8511** Torts
Wrongs to the person and to property; legal remedies through which compensation or other relief may be obtained.

**LAW 8511** Torts
Wrongs to the person and to property; legal remedies through which compensation or other relief may be obtained.

**LAW 8513** Defamation, Privacy, Relational & Emotional Torts
A focus on word torts, emotional injuries, and torts stemming from relational duties of care. Defamation topics covered will include private and public official and public figure plaintiffs, as well as tactical aspects of defamation actions and privileges. Privacy torts explored will be false light, public disclosure of private facts, intrusion and seclusion, and appropriation of name or likeness. The majority of the course will involve coverage of special or limited duties of care arising from contractual or professional relationships (such as medical and legal malpractice), landowner liability, sexual harassment in employment, familial and governmental immunities, prenatal injuries, negligent infliction of emotional distress, as well as theories of vicarious liability for the torts of others.

**LAW 8513** Defamation, Privacy, Relational & Emotional Torts
A focus on word torts, emotional injuries, and torts stemming from relational duties of care. Defamation topics covered will include private and public official and public figure plaintiffs, as well as tactical aspects of defamation actions and privileges. Privacy torts explored will be false light, public disclosure of private facts, intrusion and seclusion, and appropriation of name or likeness. The majority of the course will involve coverage of special or limited duties of care arising from contractual or professional relationships (such as medical and legal malpractice), landowner liability, sexual harassment in employment, familial and governmental immunities, prenatal injuries, negligent infliction of emotional distress, as well as theories of vicarious liability for the torts of others.

**LAW 8521** Civil Procedure I
Pleading; joinder of parties and claims; pre-trial motions; discovery; summary judgment; pre-trial and trial procedure; post trial
motions.

**LAW 8522** Civil Procedure II  
Court systems; personal jurisdiction and venue; federal jurisdiction; choice of law; preclusion; appellate procedure

**LAW 8522D** Discovery Practice in Civil Litigation  
This course focuses on the various discovery techniques which are commonly used in federal civil practice, and also compares state procedures. General topics include the uses of discovery, informal discovery, building the discovery plan, ethical issues, privileges and protections, the discovery tools, electronic discovery, experts, motions to compel discovery, and sanctions.

**LAW 8531** Introduction To Law And Lawyering Processes I  
Introduction to legal reasoning; case analysis and synthesis; case research; structure and style in legal writing with emphasis on expository writing, including office memoranda.

**LAW 8531** Introduction To Law And Lawyering Processes I  
Introduction to legal reasoning; case analysis and synthesis; case research; structure and style in legal writing with emphasis on expository writing, including office memoranda.

**LAW 8531I** Introduction To Law & Lawyering Processes International  
Introduction to legal reasoning; case analysis and synthesis; case research; structure and style in legal writing with emphasis on expository writing, including office memoranda.

**LAW 8531I** Introduction To Law & Lawyering Processes International  
Introduction to legal reasoning; case analysis and synthesis; case research; structure and style in legal writing with emphasis on expository writing, including office memoranda.

**LAW 8532** Introduction To Law And Lawyering Processes II  
Introduction to advocacy; introduction to interviewing, counseling and negotiation; statutory and computerized research; writing to and on behalf of a client, including a trial or appellate brief; oral advocacy.

**LAW 8532** Introduction To Law And Lawyering Processes II  
Introduction to advocacy; introduction to interviewing, counseling and negotiation; statutory and computerized research; writing to and on behalf of a client, including a trial or appellate brief; oral advocacy.

**LAW 8532F** Intro to Law & Lawyering Processes II-Family Law  
Introduction to advocacy; introduction to interviewing, counseling, & negotiation; statutory & computerized research; writing to and on behalf of a client, including a trial or appellate brief; oral advocacy. Problems and exercises will be drawn from family and child law.

**LAW 8532I** Introduction to American Legal Skills  
Introduction to oral and written advocacy; interviewing, counseling and negotiation; and alternative dispute resolution. This course is intended for students in the LLM Program for Chinese and Foreign Lawyers.

**LAW 8532R** American Legal Research  
American Legal Research

**LAW 8541** Property I  
Introduction to the nature of property; basic personal property law; adverse possession; possessory estates; basic future interests; marital and concurrent interests; landlord-tenant relationships.

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Introduction to the nature of property; basic personal property law; adverse possession; possessory estates; basic future interests; marital and concurrent interests; landlord-tenant relationships.

**LAW 8542** Property II  
Licenses, easements, real covenants, equitable servitudes; nuisances; basic water law; brokerage; financing, mortgages, deeds of trust; contract of sale, deeds, closing; title insurance, warranties; recording; eminent domain; zoning.

**LAW 8542** Property II  
Licenses, easements, real covenants, equitable servitudes; nuisances; basic water law; brokerage; financing, mortgages, deeds of trust; contract of sale, deeds, closing; title insurance, warranties; recording; eminent domain; zoning.
LAW 8552 Federal Taxation
Theory, history, and principles of federal income taxation; basic concepts of income, classification of income and deductions.

LAW 8552 Federal Taxation
Theory, history, and principles of federal income taxation; basic concepts of income, classification of income and deductions.

LAW 8601 Business Organizations
Partnership, limited liability company and corporation law; choice of business forms, formation of partnerships, limited liability companies and corporations; rights, duties, and powers of partners, members, shareholders, directors, and officers; closely held corporations; proxy regulation; derivative suites; dividends and stock redemptions; introduction to the Securities Act of 1933 and Securities Exchange Act of 1934.

LAW 8601 Business Organizations
Partnership, limited liability company and corporation law; choice of business forms, formation of partnerships, limited liability companies and corporations; rights, duties, and powers of partners, members, shareholders, directors, and officers; closely held corporations; proxy regulation; derivative suites; dividends and stock redemptions; introduction to the Securities Act of 1933 and Securities Exchange Act of 1934.

LAW 8601L Transnational Lawyering Skills Lab
Students are trained in counseling clients and negotiating business formation, dissolution, and liability issues as well as drafting appropriate documents. Pre or co-requisite: Business Organizations.

LAW 8601R Doing Business In Ireland, Part I
A survey of International Trade Law and European and American Competition Law that impact on American multinational companies operating in the Republic of Ireland.

LAW 8601R Doing Business In Ireland, Part I
A survey of International Trade Law and European and American Competition Law that impact on American multinational companies operating in the Republic of Ireland.

LAW 8601S Doing Business in Ireland, Part II
A survey of the Ireland Company Law and comparative United States Corporate Law and a survey of United States corporate taxation of multinational companies operating in Ireland.

LAW 8601T Introduction to International Trade
The course will examine the structure and workings of the major global trade regimes, including the World Trade Organization ("WTO") and the North American Free Trade Agreement (the ""NAFTA""") The role of international trade in such areas as the environment, labor rights, national security, the developing world, and non-market economies will also be considered. The course will also focus in depth on United States domestic trade remedies, including antidumping, countervailing duties, section 301 and 337 actions as well as on other international trade restricting practices.

LAW 8601W Comparative War Crimes Tribunals
The course will discuss the need for war crimes tribunals, evaluate historical models for tribunals (including the Nuremberg trials and the International Military Tribunal for the Far East), and then examine and compare domestic and international tribunals, including military courts-martial systems, military commissions, ad-hoc tribunals such as the ICTY and ICR, hybrid tribunals, issues of war crimes tribunals, including sovereignty, effectiveness, complementarity, jurisdiction, and the problem of victor's justice.

LAW 8603 Taxation Of Business Organization
Survey course of the taxation of business enterprises, particularly partnerships, corporations and subchapter S corporations. Prerequisites: Federal Taxation and Business Organizations.

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Survey course of the taxation of business enterprises, particularly partnerships, corporations and subchapter S corporations. Prerequisites: Federal Taxation and Business Organizations.

LAW 8605 Antitrust And Competition Law
This course studies how antitrust laws work to create an environment in which free and open competition thrives. Course examines how antitrust laws seek to prevent unreasonable horizontal (competitors) and vertical (supply chain) restraints that harm consumers and to deal with markets where one competitor has attained monopoly power, conduct that is specifically exempted from antitrust regulation, who is entitled to seek redress for antitrust violations, and particular issues unique to antitrust
litigation.

**LAW 8605 Antitrust And Competition Law**
This course studies how antitrust laws work to create an environment in which free and open competition thrives. Course examines how antitrust laws seek to prevent unreasonable horizontal (competitors) and vertical (supply chain) restraints that harm consumers and to deal with markets where one competitor has attained monopoly power, conduct that is specifically exempted from antitrust regulation, who is entitled to seek redress for antitrust violations, and particular issues unique to antitrust litigation.

**LAW 8609 Ethical Issues In Family Law Representation**
Advanced study of the ethical obligations of public and private attorneys in estate, family, and juvenile law representation. Topics may include identification of the client, ethical and legal obligations of confidentiality and disclosure, competence and client communication, respect for third persons (particularly obligations toward children of clients) and other related subjects. Paper and presentation required. Pre or co-requisites: Estates and Trusts and Family Law. When offered for 2 credit hours, the course fulfills the Schools Professional Responsibility graduation requirement

**LAW 8611 Estates And Trusts**
Intestate succession; testamentary dispositions; execution, modification, and revocation of wills; will contests; advancements, ademption, and exoneration; family allowances; rights of estate creditors; express, implied, resulting, and constructive trusts; basic tax aspects of estates and trusts; rule against perpetuities; will substitutes.

**LAW 8612 Tax Planning With Life Insurance**
An examination of the various tax consequences of using life insurance, including issues relating to the income, gift and estate tax consequences of life insurance ownership by an individual, and irrevocable trust, or business entity.

**LAW 8612R Tax Planning With Life Insurance**
An examination of the various tax consequences of using life insurance, including issues relating to the income, gift and estate tax consequences of life insurance ownership by an individual, and irrevocable trust, or business entity.

**LAW 8614 Estate Planning And Drafting**
Continuation of Estates & Trusts I using problems and cases as a basis for class discussion. Working in teams, students engage in the planning of estates for actual clients, proceeding through the entire process and culminating in the execution of wills, trusts or other appropriate instruments. Course is not open to students who have taken Estate Planning. Prerequisite: Estates & Trusts I.

**LAW 8614R Estate Planning For Retirement Plan Benefits**
The income, gift, estate and generation-skipping transfer tax consequences and rules related to the ownership, distribution and withdrawal of retirement plan benefits, including minimum required distributions, designating beneficiaries, spousal rights and rollover options

**LAW 8614R Estate Planning For Retirement Plan Benefits**
The income, gift, estate and generation-skipping transfer tax consequences and rules related to the ownership, distribution and withdrawal of retirement plan benefits, including minimum required distributions, designating beneficiaries, spousal rights and rollover options
LAW 8615 Estate Planning And Practice
Tax-oriented examination of contemporary estate planning problems for the larger estates, with emphasis on issues of direct concern to practitioners. This course is designed for LL.M. students. Others may take the course with permission of the Associate Dean.

LAW 8615R Estate Planning For Charitable Giving
Survey of federal income tax and transfer tax laws governing gifts to charitable organizations, charitable remainder trusts and charitable lead trusts; procedural requirements to assure deductibility; and planning and drafting considerations.

LAW 8615R Estate Planning For Charitable Giving
Survey of federal income tax and transfer tax laws governing gifts to charitable organizations, charitable remainder trusts and charitable lead trusts; procedural requirements to assure deductibility; and planning and drafting considerations.

LAW 8617 Elder Law For Estate Planners
An examination of the legal tools available for the elderly client for decision-making, both health care and financial, in the event of incapacity, and asset preservation, including Medicare and Medicaid qualification. The course will cover the use of trust; durable powers of attorney, and advance directives for health care and living wills and the relationship to court guardianship.

LAW 8617R Elder Law For Estate Planners
An examination of the legal tools available for the elderly client for decision-making, both health care and financial, in the event of incapacity, and asset preservation, including Medicare and Medicaid qualification. The course will cover the use of trust; durable powers of attorney, and advance directives for health care and living wills and the relationship to court guardianship.

LAW 8621 Evidence
General principles relating to proof of facts in civil and criminal trials; presumptions; order of proof; relevancy; judicial notice; real and demonstrative evidence; authentication; best evidence rule; hearsay; competency; impeachment; rehabilitation.

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General principles relating to proof of facts in civil and criminal trials; presumptions; order of proof; relevancy; judicial notice; real and demonstrative evidence; authentication; best evidence rule; hearsay; competency; impeachment; rehabilitation.

LAW 8631 Constitutional Law
Core issues relating to the U.S. Constitution, including the doctrine of judicial review, the powers of Congress and the President, limitations on state power, and judicial protection of individual rights.

LAW 8632 Constitutional Law II - Powers Of Government
State and Federal constitutions; separation of powers; executive powers, legislative powers; the federal system; powers of Congress, residual powers of the states; relations between the States including extradition and interstate commerce.

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State and Federal constitutions; separation of powers; executive powers, legislative powers; the federal system; powers of Congress, residual powers of the states; relations between the States including extradition and interstate commerce.

LAW 8633 First Amendment Law
Basic themes and advanced problems relating to the law of the First Amendment to the United States Constitution, including exploration of the values behind the protection, subversive advocacy, regulation of speech in the public forum, access to the media, regulation of the press, symbolic expression, libel, obscenity, commercial speech, picketing, right of association, loyalty oaths, legislative investigations and government demands for information, separation of church and state, free exercise of religion, state aid to the religious schools, regulation of religion-based conduct.

LAW 8633 First Amendment Law
Basic themes and advanced problems relating to the law of the First Amendment to the United States Constitution, including exploration of the values behind the protection, subversive advocacy, regulation of speech in the public forum, access to the media, regulation of the press, symbolic expression, libel, obscenity, commercial speech, picketing, right of association, loyalty oaths, legislative investigations and government demands for information, separation of church and state, free exercise of religion, state aid to the religious schools, regulation of religion-based conduct.
LAW 8634 Criminal Law
Introduction to substantive criminal law, its role and purpose in our society; principles of liability, common law and statutory offenses; defenses; punishment.

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Introduction to substantive criminal law, its role and purpose in our society; principles of liability, common law and statutory offenses; defenses; punishment.

LAW 8634I International Criminal Law
An introductory course in International Criminal Law focusing on the criminal prosecution of individuals under international law, primarily by international tribunals (or "hybrid" international/national tribunals) and secondarily by national tribunals applying international law. The course will include a consideration of aspects of criminal law that are common to most criminal legal systems, with a particular focus on those crimes that are "international," will revisit the concept of criminal jurisdiction, how it is acquired, and its limitations, such as immunity for heads of state and diplomats; and will examine the elements of war crimes, crimes against humanity, and genocide, as well as a few other crimes of international concern; and excuses or justifications under international law, such as self-defense and insanity.

LAW 8634K International Contract Law under the CISG
A study of the United Nations Convention on Contracts for the International Sale of Goods (the CISG), which provides a uniform system of contract principles for international sales transactions among the approximately 70 countries that have ratified the treaty. The class focuses on the applicability of the CISG, identifying for students how to avoid applicability by default; it also examines the basic contracting principles of formation, interpretation, and enforcement of contracts as governed by the CISG, utilizing both the treaty language as well as important recent decisions applying the CISG provisions.

LAW 8635 Criminal Procedure I
Introduction to the administration of criminal justice; constitutional rights of the accused; due process; privilege against self-incrimination; right to counsel; arrest, search, and seizure; wire-tapping; police interrogation and confessions; pre-trial identification procedures.

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Introduction to the administration of criminal justice; constitutional rights of the accused; due process; privilege against self-incrimination; right to counsel; arrest, search, and seizure; wire-tapping; police interrogation and confessions; pre-trial identification procedures.

LAW 8635S Wrongful Convictions
An examination of the causes of wrongful convictions, a consideration of systemic reforms that might minimize convicting the innocent and a focus on recurring ethical issues that confront prosecutors and criminal defense lawyers. Students also will work with The Midwestern Innocence Project on cases of possible actual innocence. This course provides an insider's look into the operation of the criminal justice system and is designed to help students gain insight into features of the criminal justice system that have a tendency to produce wrongful convictions. It should be of particular interest to any student interested in working in a prosecutor's office, public defender's office or for a firm doing defense work. It is a prerequisite for any student wishing to enroll in the Innocence Project clinic. Limited enrollment (normally, up to 16 students)

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LAW 8635T Wrongful Convictions II
A follow-up class to Wrongful Convictions I, open only to students who have completed Wrongful Convictions I. The course will involve "hands on" work with cases that have passed through the first level of screening in Wrongful Convictions I with students receiving the transcripts and case documents in addition to the briefs and opinion in the case. Students will receive these documents and report on the likelihood that an inmate is innocent and the strategies available for pursuing the claim of innocence.

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students receiving the transcripts and case documents in addition to the briefs and opinion in the case. Students will receive these documents and report on the likelihood that an inmate is innocent and the strategies available for pursuing the claim of innocence.

**LAW 8636 Criminal Procedure II**
Continuation of the study of the administration of criminal justice; exclusionary rules; bail; prosecutor's discretion; grand jury; preliminary hearing; jurisdiction, venue; joinder and severance of offenses and defendants; right to speedy trial; pleas of guilty; discovery; trial by jury; publicity; double jeopardy.

**LAW 8636 Criminal Procedure II**
Continuation of the study of the administration of criminal justice; exclusionary rules; bail; prosecutor's discretion; grand jury; preliminary hearing; jurisdiction, venue; joinder and severance of offenses and defendants; right to speedy trial; pleas of guilty; discovery; trial by jury; publicity; double jeopardy.

**LAW 8636A Applied Federal Criminal Law & Evidence**
A practical skills course involving consideration and application of the rules of criminal procedure and evidence to a criminal case in federal court, including, but not limited to rules dealing with charging documents; bond & detention; discovery; suppression motions; plea bargains, pleas and sentencing; pretrial preparation; voir dire; evidentiary foundations; opinion testimony; character and related evidence. The course will also involve the drafting of documents.

**LAW 8637 U.S. Attorney's Office Law Clinic**
Up to four students, under supervision of an Assistant United States Attorney, are selected as interns to work in the United States Attorney's Office for the Western District of Missouri with members of the Strike Force, Narcotic Unit, General Crimes Unit or Civil Division. Activities include, legal research and writing, consisting of memoranda, motions and briefs; observations and participation in trials, pre-trial hearings and motions, as appropriate; and assistance with litigation. Students are expected to work a pre-approved schedule of six hours a week for fourteen weeks with a minimum of eighty hours a semester and to attend regular conferences with their supervising attorney and faculty supervisor. Prerequisites: Three semesters of law school and attainment of at least a B+ cumulative grade point average. Eligible interested students are screened and selected. Ungraded. Pass/Fail.

**LAW 8637R U.S. Attorney's Office Law Clinic**
Up to four students, under supervision of an Assistant United States Attorney, are selected as interns to work in the United States Attorney's Office for the Western District of Missouri with members of the Strike Force, Narcotic Unit, General Crimes Unit or Civil Division. Activities include, legal research and writing, consisting of memoranda, motions and briefs; observations and participation in trials, pre-trial hearings and motions, as appropriate; and assistance with litigation. Students are expected to work a pre-approved schedule of six hours a week for fourteen weeks with a minimum of eighty hours a semester and to attend regular conferences with their supervising attorney and faculty supervisor. Prerequisites: Three semesters of law school and attainment of at least a B+ cumulative grade point average. Eligible interested students are screened and selected. Ungraded. Pass/Fail.

**LAW 8637R U.S. Attorney's Office Law Clinic**
Up to four students, under supervision of an Assistant United States Attorney, are selected as interns to work in the United States Attorney's Office for the Western District of Missouri with members of the Strike Force, Narcotic Unit, General Crimes Unit or Civil Division. Activities include, legal research and writing, consisting of memoranda, motions and briefs; observations and participation in trials, pre-trial hearings and motions, as appropriate; and assistance with litigation. Students are expected to work a pre-approved schedule of six hours a week for fourteen weeks with a minimum of eighty hours a semester and to attend regular conferences with their supervising attorney and faculty supervisor. Prerequisites: Three semesters of law school and attainment of at least a B+ cumulative grade point average. Eligible interested students are screened and selected. Ungraded. Pass/Fail.

**LAW 8638 Entrepreneurial Lawyering: Solo And Small Firm Practice**
Course will focus on law practice management for solo and small firms. Topics include organizational structure, firm management, fee setting and allocation, and effective and ethical marketing. Course includes attendance at the Missouri Bar Solo and Small Firm Conference.

**LAW 8638R Entrepreneurial Lawyering: Solo And Small Firm Practice**
Course will focus on law practice management for solo and small firms. Topics include organizational structure, firm management, fee setting and allocation, and effective and ethical marketing. Course includes attendance at the Missouri Bar Solo and Small Firm Conference.

**LAW 8638R Entrepreneurial Lawyering: Solo And Small Firm Practice**
Course will focus on law practice management for solo and small firms. Topics include organizational structure, firm management, fee setting and allocation, and effective and ethical marketing. Course includes attendance at the Missouri Bar Solo and Small Firm Conference.
LAW 8641 Legislation
This course explores a variety of topics under the broad heading of "Legislation." Included among them are: electoral and representational structures, legislative drafting, canons of statutory interpretation, identifying and utilizing legislative history, the role of referendums and initiatives as a supplement to representative institutions, public choice theory, and other theories of legislation. The course also includes an opportunity for students to participate in the drafting of legislation for the Kansas for Missouri State legislatures. Paper optional.

LAW 8641R Legislation
This course explores a variety of topics under the broad heading of "Legislation." Included among them are: electoral and representational structures, legislative drafting, canons of statutory interpretation, identifying and utilizing legislative history, the role of referendums and initiatives as a supplement to representative institutions, public choice theory, and other theories of legislation. The course also includes an opportunity for students to participate in the drafting of legislation for the Kansas for Missouri State legislatures. Paper optional.

LAW 8643 Advanced Legal Research: Transactional Law
Prepares students who wish to focus on transactional law including business organizations, tax, pension, labor and employment, competitive business intelligence, real estate, securities, sale of businesses, etc. As the final project, students will have the opportunity to develop an in-depth research "path finder" or guide for an approved topic of their own choosing.

LAW 8643L Advanced Legal Research-Litigation
Prepares students who wish to focus on advocacy and litigation (including students in litigation with respect to Family Law and Urban, Land Use and Environmental law). The course is also intended to facilitate research for the student's legal research and writing requirement. the course will refresh and refine research skills, help students to think systemically about legal research, and familiarize students with applicable resources. As the final project, students will have the opportunity to develop an in-depth research "path finder" or guide for an approved topic of their own choosing.

LAW 8643R Advanced Legal Research-Litigation
Prepares students who wish to focus on advocacy and litigation (including students in litigation with respect to Family Law and Urban, Land Use and Environmental law). The course is also intended to facilitate research for the student's legal research and writing requirement. the course will refresh and refine research skills, help students to think systemically about legal research, and familiarize students with applicable resources. As the final project, students will have the opportunity to develop an in-depth research "path finder" or guide for an approved topic of their own choosing.

LAW 8643T Advanced Legal Research: Transactional Law
Prepares students who wish to focus on transactional law. The course is also intended to facilitate research for the student's legal research and writing requirement, although it does not satisfy the writing requirement. The course will refresh and refine research skills, help students to think systemically about legal research, and familiarize students with applicable resources relevant to transactional law including business organizations, tax, pension, labor and employment, competitive business intelligence, real estate, securities, sale of businesses, etc. As the final project, students will have the opportunity to develop an in-depth research "path finder" or guide for an approved topic of their own choosing.

LAW 8650 Race And The Law Seminar
In-depth examination of the role that race plays in American society as a whole and in judicial decision-making in particular. Course will examine the effect of race on representative democracy, employment, education, housing, hate crimes, the legal profession, sex, popular culture, and other aspects of the law. Research paper.

LAW 8656 Public Defender Trials Clinic
As permitted by Missouri Supreme Court Rule 13, senior law students, under supervision, handle cases referred from the Public Defender. Students enroll for two semesters and are required to devote at least 10 hours per week to applied skills, weekly conferences, and lectures. Limited enrollment. Prerequisites: Criminal Law and Legal Writing I and II. Students must also have completed or be enrolled in Criminal Procedure I, Evidence, and Professional Responsibility. Ungraded. Pass/Fail.
LAW 8656 Public Defender Trials Clinic
As permitted by Missouri Supreme Court Rule 13, senior law students, under supervision, handle cases referred from the Public Defender. Students enroll for two semesters and are required to devote at least 10 hours per week to applied skills, weekly conferences, and lectures. Limited enrollment. Prerequisites: Criminal Law and Legal Writing I and II. Students must also have completed or be enrolled in Criminal Procedure I, Evidence, and Professional Responsibility. Ungraded. Pass/Fail.

LAW 8656A Missouri Attorney General's Office Clinic
As permitted by Missouri Supreme Court Rule 13, second and third year law students, under supervision, work at the Attorney General's Office in Kansas City assisting with the duties and functions of the office provides the community. Students are required to devote at least 6 hours per week to formalized instructions, individual mentoring, and instruction and guidance from assistant attorney generals. Limited enrollment. Prerequisites: Rule 13 certification. Ungraded. Pass/Fail.

LAW 8656A Missouri Attorney General's Office Clinic
As permitted by Missouri Supreme Court Rule 13, second and third year law students, under supervision, work at the Attorney General's Office in Kansas City assisting with the duties and functions of the office provides the community. Students are required to devote at least 6 hours per week to formalized instructions, individual mentoring, and instruction and guidance from assistant attorney generals. Limited enrollment. Prerequisites: Rule 13 certification. Ungraded. Pass/Fail.

LAW 8656C Jackson County Prosecutor Clinic-Family Law Prosecution
As permitted by Missouri Supreme Court Rule 13, senior law students, under supervision, appear in court and assist the Jackson County Prosecutor's Office, Child Support Division, in prosecuting cases involving paternity establishment and child support. Support services are provided without charge to custodial parents living in Jackson County. Students enroll for two semesters and are required to devote at least 10 hours per week to formalized instructions, individual mentoring, and instruction and guidance from assistant prosecutors. Limited enrollment. Prerequisites: Rule 13 certification, Evidence, Professional Responsibility, Criminal procedure I, and Family Law. Ungraded. Pass/Fail.

LAW 8656F Federal Public Defender Externship Clinic
Up to three students will be assigned to work in the Federal Public Defender's Office. Under the supervision of the Federal Public Defender, a student will prepare pleadings and represent federal indigent criminal defendants. Students will be expected to perform legal research, to write memoranda, motions and briefs, to observe and to appropriately participate in trials, pre-trial hearings, motion hearings and, in general, to assist in litigation. Students must meet eligibility requirements and be certified in compliance with the Local Federal Rules of Court. Student will work a pre-approved schedule totaling 6 hours a week for 14 weeks with a minimum of 80 hours a semester for two academic credit hours and to attend regular conference with their Supervising Attorney and with their Faculty Supervisor. Students must have completed three semesters of law school and must be in the upper half of their class. Ungraded. Pass/Fail.

LAW 8656F Federal Public Defender Externship Clinic
Up to three students will be assigned to work in the Federal Public Defender's Office. Under the supervision of the Federal Public Defender, a student will prepare pleadings and represent federal indigent criminal defendants. Students will be expected to perform legal research, to write memoranda, motions and briefs, to observe and to appropriately participate in trials, pre-trial hearings, motion hearings and, in general, to assist in litigation. Students must meet eligibility requirements and be certified in compliance with the Local Federal Rules of Court. Student will work a pre-approved schedule totaling 6 hours a week for 14 weeks with a minimum of 80 hours a semester for two academic credit hours and to attend regular conference with their Supervising Attorney and with their Faculty Supervisor. Students must have completed three semesters of law school and must be in the upper half of their class. Ungraded. Pass/Fail.

LAW 8656P Jackson County Prosecutor Clinic
As permitted by Missouri Supreme Court Rule 13, senior law students, under supervision, appear in court and assist the Jackson County Prosecutor's Office with the duties and functions the office provides the community. Students enroll for two semesters and are required to devote at least 10 hours per week to formalized instructions, individual mentoring, and instruction and guidance from assistant prosecutors. Limited enrollment. Prerequisites: Rule 13 certification, and invitation after interview. Ungraded. Pass/Fail.

LAW 8656R Federal Public Defender Externship Clinic
Up to three students will be assigned to work in the Federal Public Defender's Office. Under the supervision of the Federal Public Defender, a student will prepare pleadings and represent federal indigent criminal defendants. Students will be expected to perform legal research, to write memoranda, motions and briefs, to observe and to appropriately participate in trials, pre-trial hearings, motion hearings and, in general, to assist in litigation. Students must meet eligibility requirements and be certified in compliance with the Local Federal Rules of Court. Student will work a pre-approved schedule totaling six hours a week for 14 weeks with a minimum of 80 hours a semester for two academic credit hours and to attend regular conferences with their Supervising Attorney and with their Faculty Supervisor. Students must have completed three semester of law school and must be in the upper
half of their class. Ungraded. Pass/Fail.

**LAW 8662 Federal Court Internship**
Second or third-year students with a GPA of at least 3.0 serve in a clerkship with a judge or magistrate of the U.S. District Court for the Western District of Missouri, or the U.S. Court of Appeals for the Eighth Circuit. Students work at least 70 hours at the court, and attend review conferences over the course of the semester. Ungraded. Pass/Fail.

**LAW 8662 Federal Court Internship**
Second or third-year students with a GPA of at least 3.0 serve in a clerkship with a judge or magistrate of the U.S. District Court for the Western District of Missouri, or the U.S. Court of Appeals for the Eighth Circuit. Students work at least 70 hours at the court, and attend review conferences over the course of the semester. Ungraded. Pass/Fail.

**LAW 8662F Family Court Clerkship**
Second or third-year students will serve as law clerks to judges and commissioners in the family court of Jackson County. Students work at least 80 hours at the court and attend review conferences over the course of the semester. Pass/Fail.

**LAW 8662F Family Court Clerkship**
Second or third-year students will serve as law clerks to judges and commissioners in the family court of Jackson County. Students work at least 80 hours at the court and attend review conferences over the course of the semester. Pass/Fail.

**LAW 8665 Animal Law**
This course will begin with a brief overview of the philosophical and cultural issues underlying human/animal relationships, including basic theories of the legal system's responses to social change. Legal issues relating to food animals, companion animals, laboratory animals, wild animals, and performing animals will be examined with reference to: (1) federal statutes (Animal Welfare Act, Endangered Species Act, Marine Mammal Protection Act, Wild Horses and Burros Act, Animal Damage Control Act, National Wildlife Refuge System Administration Act, Refuge Recreation Act, National Environment Police Act, and Humane Slaughter Act); (2) state statues (anti-cruelty, wills and trusts, hunting, racing and fighting statues); (3) local animal control regulations; and (4) extensive common law (standing, rights, free exercise of religion, property, landlord-tenant disputes, torts, marital dissolution and custody, and bailment).

**LAW 8665A Animal Law**
This course will begin with a brief overview of the philosophical and cultural issues underlying human/animal relationships, including basic theories of the legal system's responses to social change. Legal issues relating to food animals, companion animals, laboratory animals, wild animals, and performing animals will be examined with reference to: (1) federal statutes (Animal Welfare Act, Endangered Species Act, Marine Mammal Protection Act, Wild Horses and Burros Act, Animal Damage Control Act, National Wildlife Refuge System Administration Act, Refuge Recreation Act, National Environment Police Act, and Humane Slaughter Act); (2) state statues (anti-cruelty, wills and trusts, hunting, racing and fighting statues); (3) local animal control regulations; and (4) extensive common law (standing, rights, free exercise of religion, property, landlord-tenant disputes, torts, marital dissolution and custody, and bailment).

**LAW 8665 Animal Law**
This course will begin with a brief overview of the philosophical and cultural issues underlying human/animal relationships, including basic theories of the legal system's responses to social change. Legal issues relating to food animals, companion animals, laboratory animals, wild animals, and performing animals will be examined with reference to: (1) federal statutes (Animal Welfare Act, Endangered Species Act, Marine Mammal Protection Act, Wild Horses and Burros Act, Animal Damage Control Act, National Wildlife Refuge System Administration Act, Refuge Recreation Act, National Environment Police Act, and Humane Slaughter Act); (2) state statues (anti-cruelty, wills and trusts, hunting, racing and fighting statues); (3) local animal control regulations; and (4) extensive common law (standing, rights, free exercise of religion, property, landlord-tenant disputes, torts, marital dissolution and custody, and bailment).

**LAW 8700 Trial Advocacy I**
A practical skills course in advocacy which introduces students to the fundamental components of a typical civil and criminal trial and requires students to perform exercises involving each component and try a mock civil or criminal case from provided problem materials. The course is graded on a pass/fail basis. Prerequisite or corequisite: Evidence.

**LAW 8700 Trial Advocacy I**
A practical skills course in advocacy which introduces students to the fundamental components of a typical civil and criminal trial and requires students to perform exercises involving each component and try a mock civil or criminal case from provided problem materials. The course is graded on a pass/fail basis. Prerequisite or corequisite: Evidence.

**LAW 8702 Conflict Of Laws**
Domicile; jurisdiction and limitations on the exercise of jurisdiction; judgments; full faith and credit; choice of law; conflicts
problems in federal and international settings; conflicts problems in selected areas. Prerequisite: Civil Procedure.

**LAW 8702** Conflict Of Laws
Domicile; jurisdiction and limitations on the exercise of jurisdiction; judgments; full faith and credit; choice of law; conflicts problems in federal and international settings; conflicts problems in selected areas. Prerequisite: Civil Procedure.

**LAW 8703** Trial Advocacy II
A practical skills course in the art of trial advocacy with an emphasis on technique, style, and methods of persuasion. During class sessions, students perform exercises involving the various stages of a law suit, and are critiqued on their performances. Following performance of the exercises, students are divided into teams and try a mock case in a trial competition, from which the Law School's National Trial Competition Teams are selected. The trials are evaluated by trial lawyers and federal or state judges. The course is graded on a pass/fail basis. Limited enrollment. Prerequisite: Trial Advocacy I.

**LAW 8704** Trial Advocacy III
Students, under the supervision of trial advocacy faculty, participate in trial competitions. Enrollment by invitation only. The course is graded on a pass/fail basis. Prerequisite: Trial Advocacy I and II.

**LAW 8704A** Lawyering Skills Competition-Appellate
This course is limited to students who represent the law school in faculty supervised regional, national or international lawyering skills competitions. These competitions require application of lawyering skills in a range of substantive law areas and intensive practice of lawyering skills, judged by faculty and practitioners in the field. Students enrolled in this course will be representing the school in various moot court appellate advocacy competitions. Students will research and draft briefs or equivalent advocacy documents, develop oral arguments, conduct practice oral arguments before a range of student, faculty, and practitioner judges, and represent the law school in regional, national or international competitions. Prerequisites: Permission of instructor.

**LAW 8704C** Lawyering Skills Competition-Client Counseling Team
The course is limited to students who represent the law school in faculty supervised regional, national or international lawyering skills competitions. Students enrolled in this course will be representing the school in the client counseling competitions. Students will research a problem from a range of areas of law and develop problem solving and client counseling strategies and documents and conduct mock client interviews. Prerequisites: Permission of instructor.

**LAW 8704N** Lawyer Skills Competition-Negotiation Team
The course is limited to students who represent the law school in faculty supervised regional, national or international lawyering skills competitions. Students enrolled in this course will be representing the school in various negotiation competitions. Students will research a problem from a range of law and develop negotiation strategies and documents and conduct mock negotiations. Prerequisite: Permission of instructor.

**LAW 8704T** Lawyer Skills Competition-Transactional Practice Teams
The course is limited to students who represent the law school in faculty supervised regional, national or international lawyering skills competition. Students enrolled in this course will be representing the school in various negotiation competitions and meets. Students will research a problem involving business transactions or tax and prepare analysis and problem solving strategies. Prerequisite: Permission of instructor.
LAW 8706 Complex Litigation
As related to litigation of complex cases, study of special issues of party joinder and intervention, class action requirements and limitations, discovery, case management, and estoppel by verdict or judgment. Prerequisites: Civil Procedure I and II.

LAW 8706 Complex Litigation
As related to litigation of complex cases, study of special issues of party joinder and intervention, class action requirements and limitations, discovery, case management, and estoppel by verdict or judgment. Prerequisites: Civil Procedure I and II.

LAW 8707 Advanced Legal Writing: Litigation Drafting
Preparation of litigation documents and pleadings, including complaint or petition; cross-claim, counterclaim or third-party petition; answer; discovery documents such as a set of interrogatories or requests to admit; dispositive motions; and settlement agreements. Prerequisites: Civil Procedure I & II.

LAW 8707A Advanced Legal Writing: Practical Skills Development
Preparation of students for writing problems commonly encountered in the first two years of law practice: jury instructions, general correspondence, opinion letters, simple contracts, litigation motions and pleadings including a complaint, answer and some discovery documents. Individual feedback provided. Prerequisites: None.

LAW 8707A Advanced Legal Writing: Practical Skills Development
Preparation of students for writing problems commonly encountered in the first two years of law practice: jury instructions, general correspondence, opinion letters, simple contracts, litigation motions and pleadings including a complaint, answer and some discovery documents. Individual feedback provided. Prerequisites: None.

LAW 8707C Advanced Legal Writing: Litigation Drafting
Preparation of litigation documents and pleadings, including complaint or petition; cross-claim, counterclaim or third-party petition; answer; discovery documents such as a set of interrogatories or requests to admit; dispositive motions; and settlement agreements. Prerequisites: Civil Procedure I & II.

LAW 8707C Advanced Legal Writing: Litigation Drafting
Preparation of litigation documents and pleadings, including complaint or petition; cross-claim, counterclaim or third-party petition; answer; discovery documents such as a set of interrogatories or requests to admit; dispositive motions; and settlement agreements. Prerequisites: Civil Procedure I & II.

LAW 8707E Advanced Legal Writing: Scholarly Writing
Preparation of students for scholarly writing including independent study, law review, and seminar papers. Focus will be on topic identification and refinement; developing a thesis; research strategies including reiterative and mediated searching, systemic evaluation of resources, problem typing and solving, and resources for specific topics in the law; proper attribution and use of authority; developing a working draft; and creating a balanced, thorough, and carefully reasoned and supported analysis.

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Preparation of students for scholarly writing including independent study, law review, and seminar papers. Focus will be on topic identification and refinement; developing a thesis; research strategies including reiterative and mediated searching, systemic evaluation of resources, problem typing and solving, and resources for specific topics in the law; proper attribution and use of authority; developing a working draft; and creating a balanced, thorough, and carefully reasoned and supported analysis.

LAW 8707F Advanced Legal Writing: Appellate Brief Writing
Preparation of federal and state court appellate briefs, including the jurisdictional statement; statement of the case; points relied on; statement of the issues presented; summary of the argument; argument; and responses and replies to arguments. Prepares students to outline and organize arguments; edit and revise written work; and finalize an appellate brief.

LAW 8710 Advanced Lawyering Processes
Legal analysis, research and writing; instruction and discussion of the research and writing process and related topics in legal method and legal education; supervised production of an expository writing, advocacy writing and scholarly writing; development of research and writing exercises for use in the first-year Legal Writing Program and service as Teaching Assistants in the Program; limited enrollment; admission by application to the instructor.

LAW 8710 Advanced Lawyering Processes
Legal analysis, research and writing; instruction and discussion of the research and writing process and related topics in legal method and legal education; supervised production of an expository writing, advocacy writing and scholarly writing; development of research and writing exercises for use in the first-year Legal Writing Program and service as Teaching Assistants in the Program; limited enrollment; admission by application to the instructor.
LAW 8710B Legal Analysis & Methods
Preparation of students for the bar review and exam process with a focus on improving analytical skills to approach and do well on practice bar exam questions, including essay, multiple-choice, and performance questions. The course will cover specific topics tested on the bar exam with additional emphasis on refining memorization skills and learning how to self-assess understanding of concepts. Permission of instructor is needed to enroll. International LLM students also need permission of the Associate Dean for international Studies to enroll.

LAW 8711 Remedies
Remedies for violation of legally protected interests; history and development of equity jurisdiction and modern equity practice; injunctions; declaratory judgments; rescission; reformation; restitution; contempt; damages. Prerequisite: Civil Procedure.

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LAW 8713 Death Penalty Clinic
The post-conviction process of collateral review in death penalty cases; training in legal representation of the postconviction petitioner. Pre-or Co-requisite: Problems and Issues in the Death Penalty.

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LAW 8713C Capital Punishment in the Modern World: Constitutional & Human Rights Perspectives
A consideration of problems and issues in the death penalty, including the following topics: the historical and constitutional perspectives on the death penalty; the practical application of the death penalty in the United States; capital punishment and human dignity; and the future of capital punishment

LAW 8713P Innocence Project
Students, under supervision, provide investigate and legal assistance to prisoners with persuasive actual innocence claims. Students meet weekly with the director of the program for training and evaluation. Assigned tasks depend on the needs of the Innocence Project, and may include interviewing potential clients, gathering records, investigating actual innocence claims, consulting with experts, drafting post-conviction and/or clemency pleadings, and appearing at court hearings. Clinical students work in conjunction with law and journalism students enrolled at the University of Missouri-Columbia and are required to work 240 hours a semester or roughly eighteen (18) hours a week on their clinic cases. Limited enrollment (normally, 8 students). Prerequisites: Criminal Law, Criminal Procedure I and Wrongful Convictions. Pass/Fail.

LAW 8714 Gender And Justice
Students will examine and discuss legal issues of special importance to women. Topics will include (among others) sexual discrimination, sexual harassment, domestic violence, reproductive autonomy, and pornography. The course seeks to present each topic in its social context by supplementing legal readings with materials drawn from the social sciences, literature, and film. Paper required. Enrollment limited to fifteen students. Recommended: Constitutional Law I.

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Students will examine and discuss legal issues of special importance to women. Topics will include (among others) sexual discrimination, sexual harassment, domestic violence, reproductive autonomy, and pornography. The course seeks to present each topic in its social context by supplementing legal readings with materials drawn from the social sciences, literature, and film. Paper required. Enrollment limited to fifteen students. Recommended: Constitutional Law I.

LAW 8714C Gender and Justice: Selected Topics
Students examine and discuss, from a comparative perspective, legal issues that have a substantial impact on the construction of gender, paying particular attention to the laws of Ireland and the United States. Topics will include selected portions of some of the following issues: sex discrimination from an historical perspective in each country the constitutional standards for evaluation of sex discrimination; sexual harassment; domestic violence; reproductive rights; familial rights (same-sex marriage, divorce, and custody); feminist theory (equal treatment theory, cultural feminism, radical feminism, lesbian theory, racial essentialism, and theories of global gender equality); and depictions of gender in popular culture. The course seeks to present each topic in its social context by supplementing legal readings with materials drawn from the social sciences and literature.

LAW 8714G Gender, Race, Sexual Orientation, Religion & Film
A focus on the ways in which facets of identity (e.g., gender, race, sexual orientation and religious beliefs) are illuminated in films and other popular media that have implications for law and public policy, including how public sentiments are influenced by movies and other media and how movie portrayals of these identity characteristics shape popular conceptions of what the law
should be in relation to them. Readings and discussions illuminate the ways various media both feed, and at times test, societal assumptions about identity characteristics.

**LAW 8714R Assisted Reproduction Seminar**
An in-depth examination of assisted reproduction from a legal perspective. The course will include interdisciplinary study of the development of reproductive technologies and the implications for law and regulation. The course will attempt to situate the legal discussion within the context of the changing science and the nature of the industry. Discussion will therefore consider the international development of the industry, the importance of determination of parenthood to its viability, potential exploitation of vulnerable patients, and the impact on the resulting children. Course topics will include consideration of the constitutional, family law and regulatory frameworks, posthumous reproduction, embryonic stem cell a research and human cloning.

**LAW 8714S Sexuality and the Law**
An examination of sexual orientation, sexuality, and the law. This course will introduce students to existing and emerging jurisprudence in these areas by examining case law with an eye toward how holdings in specific cases can be expanded or restricted in future litigation. The five-day course will examine the manner in which constructions of sexuality and sexual orientation have impacted the development of law in the areas of constitutional law (including speech and the right to privacy), employment, marriage, parenting, violence and military service.

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**LAW 8716 Cyberlaw and Information Policy**
Survey of the areas of the law with existing or potential application to computers (such as contract law, intellectual property law, criminal law, tort law and constitutional law) highlighting the legal issues involved in the areas studied.

**LAW 8720 Secured Transactions**
Secured Transactions in personal property under Article 9 of the Uniform Commercial Code, function and form of a security agreement, process of perfecting a security interest, priority among unsecured parties; secured sales of goods under Article 2 of the Uniform Commercial Code.

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Secured Transactions in personal property under Article 9 of the Uniform Commercial Code, function and form of a security agreement, process of perfecting a security interest, priority among unsecured parties; secured sales of goods under Article 2 of the Uniform Commercial Code.

**LAW 8721 Commercial Transactions**
Law of negotiable instruments; bank collections; Articles 3 and 4 of the Uniform Commercial Code; electronic funds transfers.

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**LAW 8723 Banking Law Seminar**
Federal and state law governing banking activities; regulation of bank holding companies; formation of banks; the FDIC and FSLIC; interstate banking; deregulation of banking transactions; banking activities by non-banks; regulation of securities activities of banks. Paper required. Prerequisite: Commercial Transactions.

**LAW 8725 Water Law**
Private acquisition of water rights through riparian ownership and prior appropriation; public rights to water existent in bed ownership easements and trusts; ground water management; water distribution organizations; federal allocation and control of water resources; interstate allocation.

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**LAW 8728 Law And The American Indian**
An anthropological, historical and legal study of the American Indian, including a focus on American Indian traditional law and
values, federal policy and current legal issues.

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An anthropological, historical and legal study of the American Indian, including a focus on American Indian traditional law and values, federal policy and current legal issues.

**LAW 8729 Preservation Law**  
An exploration of the legal and economic issues impacting preservation of land, wilderness, buildings and archeological and historical sites, including a study of various federal and state preservation legislation, and private land use preservation measures.

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**LAW 8730 Introduction to American Law & Culture**  
Introduction to the American legal system, including government structure, sources of law, common law development, and core substantive areas. Available to LL.M. International students only.

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**LAW 8731 Professional Responsibility**  
Code of Professional Responsibility and the Model Rules of Conduct; role of the lawyer as a professional; confidentiality; conflict of interest; zeal within the bounds of the law; competency; providing legal services.

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Code of Professional Responsibility and the Model Rules of Conduct; role of the lawyer as a professional; confidentiality; conflict of interest; zeal within the bounds of the law; competency; providing legal services.

**LAW 8732 Lawyers and Dispute Resolution**  
An overview of the emerging trend towards alternative forms of dispute resolution and some reasons for it, methods of dispute settlement, such as negotiation, mediation, arbitration and adjudication, the roles lawyers play in these various modes, problems and possibilities of non-adversarial methods of resolving conflict, particularly mediation.

**LAW 8732 Lawyers and Dispute Resolution**  
An overview of the emerging trend towards alternative forms of dispute resolution and some reasons for it, methods of dispute settlement, such as negotiation, mediation, arbitration and adjudication, the roles lawyers play in these various modes, problems and possibilities of non-adversarial methods of resolving conflict, particularly mediation.

**LAW 8732R Intro to the Resolution of International Commercial Disputes**  
This course will introduce students to international commercial dispute resolution. While all forms of dispute resolution will be considered, the course will focus on introducing the fundamentals of arbitration, the use of arbitration between European Union members to resolve commercial disputes, and the use of arbitration between EU members and non-member states to resolve commercial disputes.

**LAW 8733 Children In The Law**  
The ways in which the legal system treats children differently from adults and the justifications for such treatment, who should make decisions for the child, decisional authority that should be granted to parents, children and the state in various contexts (e.g., abuse and neglect, health care for the child, foster care, adoption and education).

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**LAW 8733E Elder Law**  
A course providing a basic foundation for legal practice with older persons, including the following substantive topics: The Older Americans Act, the delivery of legal services to the elderly, ethical considerations, consumer protection, discrimination, Social Security and Supplementary Security Income, Medicare, Medicaid, capacity issues, guardianship and alternatives to guardianship, elder abuse and neglect, adult protective services, nursing homes, long term care, housing, healthcare decisions, end-
of-life decisions, estate planning and grand parents' rights.

**LAW 8733R Juvenile Offenders & The Law**
An examination of our justice systems's historical treatment of juvenile delinquent and status offenders, and how the goals and objectives of the past have evolved into today's juvenile offender laws; the rights of juvenile offenders in contrast to those of adult criminals; pre-trial and trial procedural issues under the juvenile code; certification of the juvenile offender as an adult; dispositional/treatment alternatives for juvenile offenders; schools and the juvenile offender.

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**LAW 8734 Mediation**
The process in which a neutral third party assists others in resolving a dispute or planning a transaction; introduction to the nature of the process, its possibilities and limitations, its current and future uses, and how lawyers can and should be involved in it; public policy and political issues surrounding the mediation movement; professional responsibility and malpractice.

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The process in which a neutral third party assists others in resolving a dispute or planning a transaction; introduction to the nature of the process, its possibilities and limitations, its current and future uses, and how lawyers can and should be involved in it; public policy and political issues surrounding the mediation movement; professional responsibility and malpractice.

**LAW 8735 Seminar In Famous Trials**
Historical and jurisprudential issues involved in a number of political trials.

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**LAW 8735P Seminar in Pre-Twentieth Century Famous Trials**
This seminar will explore six or seven of the most famous trials from ancient times to the end of the nineteenth century. The trials covered will vary from year to year, but will be taken from a list that includes the trials of Socrates, Jesus, Joan of Arc, Sir Thomas More, Galileo, the Salem witches, John Peter Zenger, the British soldiers charged in connection with the Boston Massacre, Aaron Burr, the slaves of the Amistad, John Brown, the Lincoln Assassination conspirators, Susan B. Anthony, the Haymarket rioters, Lizzie Borden, and Oscar Wilde. Each trial will be examined from many perspectives, both with an eye to deepening students' appreciation for history and their understanding of the tactical and ethical questions faced by attorneys involved in these famous cases. Materials for the seminar can be found on the Famous Trials website. Grades for the seminar will be based both on an in-class objective examination and a short paper addressing an issue raised in a famous pre-twentieth century trial.

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**LAW 8735R Law Of The European Union (Part I)**
An in-depth study of the legal and political framework and institutions of the European Union; the Commission, Council of Ministers, Court of Justice, Court of Auditors, and the European Parliament. Course will examine the interlocking web of European treaties, the expansion of the European Union, the European Union as a trade bloc and Ireland as a gateway to the European Union for non-bloc nations.

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An in-depth study of the legal and political framework and institutions of the European Union; the Commission, Council of Ministers, Court of Justice, Court of Auditors, and the European Parliament. Course will examine the interlocking web of European treaties, the expansion of the European Union, the European Union as a trade bloc and Ireland as a gateway to the European Union for non-bloc nations.
LAW 8736 Debtor-Creditor Rights
Creditors' remedies and debtors' rights; provisional remedies; secured transactions (Article 9 of the Uniform Commercial Code); liens and exemptions; overview of bankruptcy law.

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Creditors' remedies and debtors' rights; provisional remedies; secured transactions (Article 9 of the Uniform Commercial Code); liens and exemptions; overview of bankruptcy law.

LAW 8737 Bioethics and Assisted Reproduction
This course will examine the regulation of assisted reproduction, focusing, in particular, on the determination of legal parenthood. The course will consider the legal determination of the status and disposition of embryos, the possibilities of transfer or donation, use of donor gametes, surrogacy, nuclear transfer, and interjurisdictional conflicts. In addressing these topics, the course will compare Ireland, a relatively conservative country on reproductive issues, with the UK with a mix of liberal and conservative approaches in the United States.

LAW 8737B Bioethics and Assisted Reproduction
This course will examine the regulation of assisted reproduction, focusing, in particular, on the determination of legal parenthood. The course will consider the legal determination of the status and disposition of embryos, the possibilities of transfer or donation, use of donor gametes, surrogacy, nuclear transfer, and interjurisdictional conflicts. In addressing these topics, the course will compare Ireland, a relatively conservative country on reproductive issues, with the UK with a mix of liberal and conservative approaches in the United States.

LAW 8737R Law Of The European Union (Part II)
An examination of the substantive and procedural law governing the member states of the European Community including such topics as the nature and application of European Union Law, the relationship between European Union and national laws, remedies in national courts, enforcement actions, damages and money claims, free movement of goods and workers competition laws, intellectual property, equal treatment of women and men, and non-discrimination.

LAW 8737R Law Of The European Union (Part II)
An examination of the substantive and procedural law governing the member states of the European Community including such topics as the nature and application of European Union Law, the relationship between European Union and national laws, remedies in national courts, enforcement actions, damages and money claims, free movement of goods and workers competition laws, intellectual property, equal treatment of women and men, and non-discrimination.

LAW 8738 Immigration Law And Process
Admission, exclusion, deportation, and naturalization of aliens; structure and powers of relevant federal agencies; categories of immigrant and non-immigrant visas and visa application procedures; asylum, extradition, and refugee status; rights of aliens; public policy issues and proposals for reform; practical problems in immigration.

LAW 8738 Immigration Law And Process
Admission, exclusion, deportation, and naturalization of aliens; structure and powers of relevant federal agencies; categories of immigrant and non-immigrant visas and visa application procedures; asylum, extradition, and refugee status; rights of aliens; public policy issues and proposals for reform; practical problems in immigration.

LAW 8738C Employer Immigration Compliance Plans, Policies & Procedures
A practical lawyering skills course in which students learn how to help employers comply with employer immigration compliance requirements in order to avoid possible non-compliance fines, forfeiture of business and personal assets, and jail terms. This course includes an overview of the applicable immigration law and instructs in such matters as corporate client interviewing; Form I-9 Employment Eligibility Form; E-Verify and FAR E-Verify for federal contractors; ICE Best Employment Practices, drafting employer immigration compliance plan, policies and procedures; I-9 Self-Audits, and defending a corporate client in I-9 inspections/investigations by ICE/DHS.

LAW 8738P Immigration Law And Policy
A focus on the historical development of immigration law in the United States and fundamental questions of immigration policy. Immigration bills in Congress have been the subject of heated debate, particularly in recent years. This course provides a historical, statutory, and theoretical background for evaluating such proposals. Students will evaluate proposed federal and state legislation across the country and immigration reforms in foreign countries. Particular emphasis will be placed on post-9/11 reforms and the relationship between immigration law and the war on terrorism. The subject matter is useful for the student who intends to practice immigration law, as well as for the non-specialist interested in Immigration law as a policy matter.

LAW 8738P Immigration Law And Policy
A focus on the historical development of immigration law in the United States and fundamental questions of immigration policy.
Immigration bills in Congress have been the subject of heated debate, particularly in recent years. This course provides a historical, statutory, and theoretical background for evaluating such proposals. Students will evaluate proposed federal and state legislation across the country and immigration reforms in foreign countries. Particular emphasis will be placed on post-9/11 reforms and the relationship between immigration law and the war on terrorism. The subject matter is useful for the student who intends to practice immigration law, as well as for the non-specialist interested in Immigration law as a policy matter.

**LAW 8738R Chinese Law**

**LAW 8738V Immigration Law & The Violence Against Women Act**
A practical lawyering skills course in which students learn how to help abused immigrant women and children to apply for permanent residence in the United States, and how to help victims of violent crimes to apply for legal status. The course includes a short overview of the applicable immigration law and instructs in such matters as client interviewing; analysis of cases; working with victim advocates and experts; drafting affidavits, evidence indexes, petitions, motions and supporting documents; preparation of checklists for clients, case flowcharts, and case timelines; the review and development of evidence; and the drafting of letters to clients and the government.

**LAW 8740 Missouri Civil Procedure**
Selected problems in Missouri civil procedure under Missouri statute and rules. Topics may include venue and personal jurisdiction, pleading and motion practice rules on joinder of parties and claims, statutes of limitation, trial procedure, post-trial motions & appellate procedure, discovery, and preclusion. (2-3 hours)

**LAW 8740C The Missouri Supreme Court & Constitution**
In four of the five sessions, students will study a single case that is currently pending before the Missouri Supreme Court or has very recently been decided by it. Each case will be selected because it raises important issues under the Missouri Constitution or because it illustrates an important aspect of the Supreme Court's function in our judicial system. The students will read the briefs and (in some cases) a small amount of related material before the class session. The class will discuss the issues raised by the briefs and listen to the actual oral argument of the case. As part of the discussion, students will be introduced to the way the Supreme Court functions. One session will ordinarily consist of a trip to the Supreme Court in Jefferson City to observe the Court (if it is in session) and to meet with one or more its members. This session will be scheduled on whichever day best fits with the Court's schedule.

**LAW 8740M Missouri Civil Procedure**
Selected problems in Missouri civil procedure under Missouri statute and rules. Topics may include venue and personal jurisdiction, pleading and motion practice rules on joinder of parties and claims, statutes of limitation, trial procedure, post-trial motions & appellate procedure, discovery, and preclusion. (2-3 hours)

**LAW 8743 Global Legal Systems**
A study of different legal traditions and systems, mainly within the Civil and the Common Law traditions, focusing on each tradition's history, legal structures, legal actors, procedures, and sources of law. Non-Western Legal traditions such as Islamic, Jewish, Hindu, and Indigenous law may also be considered, time permitting.

**LAW 8743 Global Legal Systems**
A study of different legal traditions and systems, mainly within the Civil and the Common Law traditions, focusing on each tradition's history, legal structures, legal actors, procedures, and sources of law. Non-Western Legal traditions such as Islamic,
Jewish, Hindu and Indigenous Law may also be considered, time permitting.

**LAW 8743C Comparative Criminal Law**
A comparative analysis of criminal law jurisprudence in the United States and Europe (especially Ireland and the United Kingdom) with respect to the exclusionary rule, the death penalty, the jury system and the reintegration of ex-offenders into society.

**LAW 8743L Comparative Health Law**
An examination of how the legal systems of several other nations address particular aspects of health law. Specifically, the focus of this course is on patent rights with respect to the health care they receive. This will include, for example, consideration of patient rights when the care received has caused injury due to professional negligence. If time permits, it will also look at how other legal systems address the controversial issues surrounding the "right to die" as well as assisted suicide and euthanasia.

**LAW 8745 Law Review**
Editorial work in connection with the "UMKC Law Review." Open to students selected on basis of scholarship. Ungraded.

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Editorial work in connection with the "UMKC Law Review." Open to students selected on basis of scholarship. Ungraded.

**LAW 8745 Law Review Board**
The members of the Law Review Editorial Board edit articles and student notes and comments for publication in the University of Missouri Kansas City Law Review; and shepherd the articles and student pieces through the production process.

**LAW 8746 Research & Writing Requirement**
Completion of a paper of publishable quality, demonstrating intensive research and analysis under faculty supervision.

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Completion of a paper of publishable quality, demonstrating intensive research and analysis under faculty supervision.

**LAW 8746B Bridging the Research Gap: From Classroom to Practice**
Research training, including firsthand observation at a courthouse of how a case moves through the legal system and hands-on use of print and electronic research tools for problem solving and analysis of results to help students make the transition from doing legal research for the classroom to the practice setting. Students will use Lexis’ Total Litigator package of resources; Westlaw sources for transactional research; sources for legislative history, administrative law and secondary sources; and learn to develop research strategies and how to analyze the results for each.

**LAW 8746I Internship**

**LAW 8746I Internship**

**LAW 8746R Independent Study**
Independent study, including research and writing projects, under faculty supervision.

**LAW 8746R Independent Study**
Independent study, including research and writing projects, under faculty supervision.

**LAW 8746W Introduction to Workers' Compensation Law and Practice**
An introduction to the general history and purpose of the workers' compensation laws with a particular emphasis on Missouri law. Students will be presented with and guided through actual workers' compensation problems which will introduce them to the
practical aspects of the practice in this specialized area. With permission from Jefferson City and the Department of Labor and Industrial Relations, the students will be exposed to actual workers' compensation hearings, mediations and other courtroom practices held at the law school and presided over by an Administrative Law Judge.

**LAW 8746W Introduction to Workers' Compensation Law and Practice**
An introduction to the general history and purpose of the workers' compensation laws with a particular emphasis on Missouri law. Students will be presented with and guided through actual workers' compensation problems which will introduce them to the practical aspects of the practice in this specialized area. With permission from Jefferson City and the Department of Labor and Industrial Relations, the students will be exposed to actual workers' compensation hearings, mediations and other courtroom practices held at the law school and presided over by an Administrative Law Judge.

**LAW 8747 Appellate Advocacy II**
Preparation of memorandum (points relied on and summary of argument); presentation of two arguments before practicing attorneys. Ungraded.

**LAW 8748 Appellate Advocacy III**
Ellison Moot Court Competition; preparation of an appellate brief and presentation of two oral arguments before federal and state judges. Open to the 16 finalists from Appellate Advocacy II. Ungraded.

**LAW 8750 Urban Lawyer Staff**
Staff members of the Urban Lawyer receive credit for writing case notes, annotations, and statutory developments, for editing articles, for editing comments and book reviews, and for participation in urban legal conferences. Research Editors of the Urban Lawyer receive additional credit for writing a major article or comment for publication in the journal. Ungraded.

**LAW 8750 Urban Lawyer Board**
Members of the Urban lawyer Editorial Board, articles that are submitted and coordinates student written case digests and comments for publication in The Urban lawyer. Members of the board ensure the articles and student pieces conform to publication standards and work the articles through the production process. Board members must take at least one credit in the fall semester and can carry over the remaining allocated credits to the winter semester. Ungraded.

**LAW 8751 Family Law**
Pre-marital contracts; marriage; annulment; paternity; parent and child; divorce; alimony; division of property; separation agreements; adoption.

**LAW 8751D Divorce Procedure and Practice**
This course will focus on basic doctrine and procedure of divorce, child custody and related financial issues using Missouri law as the template. Students will perform a simulation of a divorce from initial client interview to judgement, including trial and mediation of the issues. Course includes attendance at the Missouri Bar Family Law Conference.
LAW 8751F Family Law & Film
An exploration of the function of family law and lawyers in society by examining legal decisions, statutes and legal commentaries in the context of films, including classic, contemporary mainstream, foreign, documentary and independent films. The seminar entails participants viewing a film followed by discussion. During the discussion session students will critique the film in light of assigned reading materials. Using films as analytical tools, the seminar examines the ways in which pop culture products (such as film and television) both reflect and change the social views about family law and lawyers. A pass/fail course.

LAW 8751S Family Violence
An in-depth examination of family violence from a legal perspective. Course topics will include interdisciplinary study of the dynamics and psychology of family violence, of historical and social policies, specialized problems of family violence (including intimate partner violence, child abuse and neglect, gay and lesbian battering, and elder abuse) and legal responses. Students will receive practical training in safety planning, intake, review of community resources, case logistics, and advocacy for temporary orders.

LAW 8752 Child & Family Services Clinic
Students represent the Missouri Department of Family Services in representing children in foster care or otherwise under the authority of the Department. Students work under the supervision and direction of clinic faculty and faculty directors, receiving classroom instruction in the substantive law and procedure governing juvenile court actions. Students must be Rule 13 eligible. Pass/Fail.

LAW 8752G Guardian Ad Litem Workshop
Advanced study of guardian ad litem practice. (GAL). Topics may include adult and child orders of protection, requirements for guardian ad litem appointments, role of the GAL, ethical considerations, working with social workers and other professionals, and best practices in investigation, recommendation, and representation. Students will partner with volunteer attorneys to act as guardians ad litem in order of protection cases. Prerequisites: Rule 13 eligible. Limited Enrollment, Instructor approval required.

LAW 8752R Family Law Practice
A practical skills course in family law in which students participate in all phases of family law practice, including the initial client interview; the drafting of questionnaires, pleadings, motions custody and discovery plans, support and maintenance proposals, orders and other documents; negotiation, and preparation for litigation. Students work in teams and perform exercises which simulate "real world" situations. Prerequisite: Family Law.

LAW 8752S Child & Family Services Clinic
Students represent the Missouri Department of Family Services in representing children in foster care or otherwise under the authority of the Department. Students work under the supervision and direction of clinic faculty and faculty directors, receiving classroom instruction in the substantive law and procedure governing juvenile court actions. Students must be Rule 13 eligible.

LAW 8752S Child & Family Services Clinic
Students represent the Missouri Department of Family Services in representing children in foster care or otherwise under the authority of the Department. Students work under the supervision and direction of clinic faculty and faculty directors, receiving classroom instruction in the substantive law and procedure governing juvenile court actions. Students must be Rule 13 eligible.
Pass/Fail.

**LAW 8753** International Law  
Survey of international legal studies; nature and role of international law, its effectiveness in dealing with international problems and its application in domestic jurisdictions.

**LAW 8753** International Law  
Survey of international legal studies; nature and role of international law, its effectiveness in dealing with international problems and its application in domestic jurisdictions.

**LAW 8753L** Transnational Litigation & Arbitration  
Legal issues involved when litigation crosses international borders, including such issues as: International service of process, international discovery, extraterritoriality, sovereign defenses and foreign legal environments (courts, lawyers, clients, laws).

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Legal issues involved when litigation crosses international borders, including such issues as: International service of process, international discovery, extraterritoriality, sovereign defenses and foreign legal environments (courts, lawyers, clients, laws).

**LAW 8754** International Business Transactions  
Legal problems encountered in international business; jurisdiction and choice of law; enforcement of judgments; methods of protecting foreign investments; extra-territorial application of United States regulations, e.g. anti-trust law.

**LAW 8754** International Business Transactions  
Legal problems encountered in international business; jurisdiction and choice of law; enforcement of judgments; methods of protecting foreign investments; extra-territorial application of United States regulations, e.g. anti-trust law.

**LAW 8757** Business Planning  
Problem-method study of choice of entity and various other legal issues and planning challenges in forming a closely held business entity and in private and public financing of an existing enterprise. The course includes practical training from drafting organizational documents to conducting simulated client interviews and providing written advice concerning hypothetical transaction. Limited enrollment.

**LAW 8757** Business Planning  
Problem-method study of choice of entity and various other legal issues and planning challenges in forming a closely held business entity and in private and public financing of an existing enterprise. The course includes practical training from drafting organizational documents to conducting simulated client interviews and providing written advice concerning hypothetical transaction. Limited enrollment.

**LAW 8757L** Special Topics In Entrepreneurial Lawyering  
Examination of issues related to ethical and effective management and marketing of law practice, emphasizing solo and small firm practice. Topics will vary from year to year, but will generally address issues such as forms of practice, dissolution of practice, practice management systems (including technology assistance), human resources management, advertisement and solicitation, insurance and malpractice.

**LAW 8757L** Special Topics In Entrepreneurial Lawyering  
Examination of issues related to ethical and effective management and marketing of law practice, emphasizing solo and small firm practice. Topics will vary from year to year, but will generally address issues such as forms of practice, dissolution of practice, practice management systems (including technology assistance), human resources management, advertisement and solicitation, insurance and malpractice.

**LAW 8757N** Entrepreneurship & New Venture Creation  
Jointly-taught by Law School and Bloch (Business) School faculty, this interdisciplinary course provides education in entrepreneurship to a combined class of students from law, business, engineering and perhaps other graduate-level disciplines. Using a combination of readings lectures, electronic blackboard discussions, team business planning projects and presentations, and individual presentations on selected topics, the Course is designed, from a law student's perspective, to both (1) familiarize the student with substantive knowledge of issues from multiple disciplines involved in creating a new venture to commercialize technology and (2) train law students in techniques designed to effectively communicate and resolve legal issues inherent in such projects in a collaborative manner with clients and their advisors from other disciplines.

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Jointly-taught by Law School and Bloch (Business) School faculty, this interdisciplinary course provides education in entrepreneurship to a combined class of students from law, business, engineering and perhaps other graduate-level disciplines.
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LAW 8757R Entrepreneurial Law & Practice Clinic
Under faculty supervision, students will counsel start-up companies and their owners and implement business planning advice by drafting articles of incorporation and organization, by-laws, partnership agreements and other business contracts. Other business-related matters ranging from regulatory, consumer, licensing, and taxation requirements; copyrights, trademark, and patent creation; and 501(C)(3) applications for non-profits may also be covered in this course. Clinic students will also receive classroom instruction in the areas of client counseling and business planning and drafting of business documents. Prerequisites: Business Organizations, Commercial Transactions, Professional Responsibility (or concurrent enrollment). Missouri Supreme Court Rule 13 certification required for in-court representation.

LAW 8758 Securities Regulation
Problem and policy method study of the Securities Act of 1933 and selected aspects of the Securities Exchange Act of 1934; financing of an enterprise; reorganizations; tender offers; proxy regulation; and securities fraud claims.

LAW 8758S Securities Regulation
Problem and policy method study of the Securities Act of 1933 and selected aspects of the Securities Exchange Act of 1934; financing of an enterprise; reorganizations; tender offers; proxy regulation; and securities fraud claims.

LAW 8758S Securities Regulation
Problem and policy method study of the Securities Act of 1933 and selected aspects of the Securities Exchange Act of 1934; financing of an enterprise; reorganizations; tender offers; proxy regulation; and securities fraud claims.

LAW 8760 Insurance
Life, fire, accident, and liability insurance; nature of insurance; nature of insurance contract; special rules of construction; standard policy provisions; regulation of insurance industry.

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Life, fire, accident, and liability insurance; nature of insurance; nature of insurance contract; special rules of construction; standard policy provisions; regulation of insurance industry.

LAW 8761 Law, Medicine & Bioethics
A study of bioethics and selected legal and ethical issues in medicine with focus on decision-making at the beginning and end of life; reproductive rights and assisted reproductive technologies; the patient-provider relationship (fiduciary, treatment, confidentiality, and disclosure obligations); physician obligations of informed consent and patient care issues; potential hospital and physician liability for medical malpractice; and end of life decision-making (withdrawal and refusal of life sustaining treatment by individuals and their surrogates) and physician-assisted suicide.

LAW 8761M Law, Medicine & Bioethics
A study of bioethics and selected legal and ethical issues in medicine with focus on decision-making at the beginning and end of life; reproductive rights and assisted reproductive technologies; the patient-provider relationship (fiduciary, treatment, confidentiality, and disclosure obligations); physician obligations of informed consent and patient care issues; potential hospital and physician liability for medical malpractice; and end of life decision-making (withdrawal and refusal of life sustaining treatment by individuals and their surrogates) and physician-assisted suicide.

LAW 8763 Labor Law
Regulation of labor relations pursuant to the national Labor Relations Act, focusing on the establishment of collective bargaining relationships, unfair labor practices, collective bargaining, strikes, picketing and pre-emption.
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LAW 8764 Administrative Law
Introduction to the administrative process; role, function, and processes of administrative agencies; policy issues of administrative government; judicial review.

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Introduction to the administrative process; role, function, and processes of administrative agencies; policy issues of administrative government; judicial review.

LAW 8764D Food, Drug & Biotechnology Law
This course will focus primarily upon the regulation of food, drugs and the products of biotechnology, such as biologic drugs and genetically modified plants and animals. Much of the course will pertain to FDA law, but will also consider the roles of other regulatory agencies such as the EPA and USDA, and the interaction of state and federal law. This area of the law provides an interesting vehicle for exploring the adoption of interpretation of statutory law, the notice and comment rule-making process, administrative law and judicial review of administrative decisions, and the interplay of science, policy and the law.

LAW 8764D Food, Drug & Biotechnology Law
This course will focus primarily upon the regulation of food, drugs and the products of biotechnology, such as biologic drugs and genetically modified plants and animals. Much of the course will pertain to FDA law, but will also consider the roles of other regulatory agencies such as the EPA and USDA, and the interaction of state and federal law. This area of the law provides an interesting vehicle for exploring the adoption of interpretation of statutory law, the notice and comment rule-making process, administrative law and judicial review of administrative decisions, and the interplay of science, policy and the law.

LAW 8765 Federal Jurisdiction
Federal court system and jurisdiction of the federal courts; diversity of citizenship; removal of cases from state to federal courts; conflicts between state and federal judicial systems; original and appellate jurisdiction of the Supreme Court. Prerequisite: Civil Procedure.

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Federal court system and jurisdiction of the federal courts; diversity of citizenship; removal of cases from state to federal courts; conflicts between state and federal judicial systems; original and appellate jurisdiction of the Supreme Court. Prerequisite: Civil Procedure.

LAW 8766 Land Use Law
Legal and administrative aspects of land use and the problems and techniques of urban planning; statutory anti-nuisance devices; controlling land use by private methods (restrictive covenants, easements, and servitudes); zoning; subdivision controls; public acquisition of land; building and housing; urban renewal and redevelopment; environmental quality control (air, water, and conservation); relationship of lawyers, planners, private builders, and owners to governmental policies.

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Legal and administrative aspects of land use and the problems and techniques of urban planning; statutory anti-nuisance devices; controlling land use by private methods (restrictive covenants, easements, and servitudes); zoning; subdivision controls; public acquisition of land; building and housing; urban renewal and redevelopment; environmental quality control (air, water, and conservation); relationship of lawyers, planners, private builders, and owners to governmental policies.

LAW 8768 National Labor Relations Board Clinic
One-semester clinic in which student(s) will be assigned to the Kansas City Office of the National Labor Relations Board. Under the direction and supervision of the Regional Director, the student(s) will participate in the investigation and prosecution of unfair labor practice charges filed by employers, unions and employees. The student(s) may participate in conducting elections to determine whether employees shall be represented by a union. The student(s) will also assist in Federal District Court litigation to obtain injunctions against NLRA violations. Tasks will include document review, witness interviewing, research and case preparation. Bi-weekly conferences with faculty supervisor and log of clinic activities also required. Prerequisite: Labor Law.

LAW 8768 National Labor Relations Board Clinic
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This course covers law developed to control pollution and to protect our country's physical environment. The course provides introductions to ecological theories and to early common law efforts to protect the environment. But the course mainly focuses on current environmental statutes (for instance, the Superfund Act, the Resource Conservation and Recovery Act, the Clean Air Act, and the Clean Water Act) and on current federal constitutional issues involving the environment. (Priorities in this mix may vary from year to year, depending on current events and related course offerings). Enforcement policies, citizen activism the needs of private industry, and the administrative process are also considered. No prerequisites.

LAW 8773 Environmental Law
This course covers law developed to control pollution and to protect our country's physical environment. The course provides introductions to ecological theories and to early common law efforts to protect the environment. But the course mainly focuses on current environmental statutes (for instance, the Superfund Act, the Resource Conservation and Recovery Act, the Clean Air Act, and the Clean Water Act) and on current federal constitutional issues involving the environment. (Priorities in this mix may vary from year to year, depending on current events and related course offerings). Enforcement policies, citizen activism the needs of private industry, and the administrative process are also considered. No prerequisites.

LAW 8773C Environmental Compliance Auditing and Permitting
This course provides students with an overview of the key federal environmental statutes and their inter-relationships, including
consideration of the Clean Water Act, the Clean Air Act, the Emergency Planning and Community Right to Know Act and the Resource Conservation and Recovery Act. Students will learn about inspections, enforcement and liability; environmental management systems and auditing; and generally, how Congress and the EPA formulate environmental laws and regulations and about the roles in the process of the legislature, the regulators, the regulated communities, citizens and public interest groups.

**LAW 8773R Environmental Law Clinic**
Student(s) perform clinic activities at the United States Army Environmental Office, including performing legal research, writing position papers, attending state and federal regulatory hearings, participating in planning conferences and assisting with litigation. Students are supervised by the Central Regional Environmental Chief Coordinating Attorney and attend regular conferences with a faculty supervisor who reviews copies of all clinic written work that may be so reviewed under the United States Army Environmental Office rules. Prerequisites; Environmental Law or Administrative Law. Ungraded. Pass/Fail.

**LAW 8773T Environmental & Toxic Torts**
An advanced torts course about compensation for damages caused by toxic contamination. It will address advanced theories of nuisance, trespass, negligence and strict liability. Particular emphasis will be given to proof and causation problems, and to novel and evolving legal theories for recovery. The course will also consider the problems posed by multiple parties, vicarious liability, and the interaction between common law and statutory remedies. The content will be tailored to supplement the environmental law curriculum. Offered: Winter Semester 2001

**LAW 8775 Appellate Advocacy IV**
Participation on National Moot Court competition team. Ungraded.

**LAW 8778 Journal/American Academy Matrimonial Lawyers**
Under direction of professor, students provide editorial assistance in publishing Journal of the American Academy of Matrimonial Lawyers, write a paper on selected topics and prepare summaries and bibliography of current works. Limited enrollment. Prerequisite: Family Law.

**LAW 8778 Journal/American Academy Matrimonial Lawyers**
Under direction of professor, students provide editorial assistance in publishing Journal of the American Academy of Matrimonial Lawyers, write a paper on selected topics and prepare summaries and bibliography of current works. Limited enrollment. Prerequisite: Family Law.

**LAW 8782 U.S. Environment Protection Agency Law Clinic National Agricultural Compliance Assistance Center**
students will be assigned to work with EPA's National Agriculture Compliance Assistance Center (AG Center). Under the supervision of an attorney with the Ag Center, a student will be expected to perform legal research, write memoranda, develop compliance assistance materials, respond to inquiries from the regulated community, and participate as appropriate in meetings, conferences, and training sessions with EPA, other federal agencies, trade associations, etc., and, in general, assist in the activities of the Ag Center. Students must have completed three semesters of law school. Preference will be given to students who have completed Environmental Law or administrative Law. Eligible interested students will then be screened and selected. Ungraded. Pass/Fail.

**LAW 8782R U.S. Environment Protection Agency Law Clinic National Agricultural Compliance Assistance Center**
students will be assigned to work with EPA's National Agriculture Compliance Assistance Center (AG Center). Under the supervision of an attorney with the Ag Center, a student will be expected to perform legal research, write memoranda, develop compliance assistance materials, respond to inquiries from the regulated community, and participate as appropriate in meetings, conferences, and training sessions with EPA, other federal agencies, trade associations, etc., and, in general, assist in the activities of the Ag Center. Students must have completed three semesters of law school. Preference will be given to students who have completed Environmental Law or administrative Law. Eligible interested students will then be screened and selected. Ungraded.
Introduction to Arbitration & Selected Topics
Exploration of selected topics in the field of commercial arbitration in the United States, including the doctrinal foundation of arbitration in the common law as modified by Federal and State statutes, the comparative benefits and drawbacks of arbitration as compared to litigation, the legal requirements for enforcing arbitration agreements in the resolution of employment, consumer, healthcare and commercial disputes, the standards for compelling arbitration, and confirming, correcting or vacating arbitration awards, the role of substantive law in determining the outcome of arbitrated disputes, and consideration of how the arbitration process can be customized to meet special needs.

LAW 8782S U.S. Environmental Protection Agency Clinic, Region VII
Students will be assigned to work at the EPS's Region VII Headquarters in Kansas City, KS. Under the supervision of an EPA attorney, students will be expected to perform legal research, write memoranda, develop compliance assistance materials, respond to inquiries from the regulated community, and participate as appropriate in meetings, conferences, and training sessions with the EPA. Students will attend regular conferences with their Supervising Attorney and Faculty Supervisor, and will produce a final written project based on their experience. Students must have completed two semesters of law school. Preference will be given to students who have completed an environmental course at the Law School. Eligible students will be screened and selected. Positions limited. Ungraded, pass/fail.

LAW 8783 Federal Public Land & Resource Law
Exploitation and conservation of natural resources; management of federal lands; water law; energy law; federal wildlife preservation; resolution of disputes involving use of natural resources.

LAW 8783B Buffalo National River: Issues in National Park Law & Management
Specialized study of topics in natural resources law as it relates to the Buffalo National River in northern Arkansas. Students will explore the history of the Buffalo River; the state and federal laws in operation governing the park (e.g., the wild and scenic rivers act, the endangered species act, national historic preservation, etc.); and planning and management issues presented by the multiple uses of the area and its surroundings.

LAW 8788A Introduction to Arbitration & Selected Topics
Exploration of selected topics in the field of commercial arbitration in the United States, including the doctrinal foundation of arbitration in the common law as modified by Federal and State statutes, the comparative benefits and drawbacks of arbitration as compared to litigation, the legal requirements for enforcing arbitration agreements in the resolution of employment, consumer, healthcare and commercial disputes, the standards for compelling arbitration, and confirming, correcting or vacating arbitration awards, the role of substantive law in determining the outcome of arbitrated disputes, and consideration of how the arbitration process can be customized to meet special needs.

LAW 8788A Introduction to Arbitration & Selected Topics
Exploration of selected topics in the field of commercial arbitration in the United States, including the doctrinal foundation of arbitration in the common law as modified by Federal and State statutes, the comparative benefits and drawbacks of arbitration as compared to litigation, the legal requirements for enforcing arbitration agreements in the resolution of employment, consumer, healthcare and commercial disputes, the standards for compelling arbitration, and confirming, correcting or vacating arbitration awards, the role of substantive law in determining the outcome of arbitrated disputes, and consideration of how the arbitration process can be customized to meet special needs.

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Exploration of selected topics in the field of commercial arbitration in the United States, including the doctrinal foundation of arbitration in the common law as modified by Federal and State statutes, the comparative benefits and drawbacks of arbitration as compared to litigation, the legal requirements for enforcing arbitration agreements in the resolution of employment, consumer, healthcare and commercial disputes, the standards for compelling arbitration, and confirming, correcting or vacating arbitration awards, the role of substantive law in determining the outcome of arbitrated disputes, and consideration of how the arbitration process can be customized to meet special needs.
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**LAW 8790 Legal Aid Clinic**
Internship at offices of Legal Aid of Western Missouri. Students receive instruction in basic poverty law representation and techniques for experiential learning and, depending on placement, are given supervised instruction and practice opportunities in client counseling, fact investigation and discovery, case preparation and pleadings, community advocacy and trial techniques. Faculty and Legal Aid attorney supervision. Limited enrollment. Concurrent enrollment in certain courses may be required for some field placements. Ungraded. Pass/fail.

**LAW 8791 Civil Rights**
Elements of a Section 1983 case, enforceable rights and available defenses; procedural aspects of civil rights cases; suits against federal and state governments. Prerequisites: Constitutional Law I.

**LAW 8792 Seminar On Gun Law & Policy**
This course examines legal and public policy issues relating to firearms and the role they play in the United States, with a particular emphasis on debates about the meaning of the Second Amendment and attempts to hold gun manufacturers and sellers liable under tort law. Research paper required. No prerequisite courses.

**LAW 8792S Seminar On Gun Law & Policy**
This course examines legal and public policy issues relating to firearms and the role they play in the United States, with a particular emphasis on debates about the meaning of the Second Amendment and attempts to hold gun manufacturers and sellers liable under tort law. Research paper required. No prerequisite courses.

**LAW 8793A Health Law 1: Liability and Quality Issues in Health Care**
Health Law 1: Liability and Quality Issues in Health Care

**LAW 8793B Health Law II: Regulation, Organization and Finance**
Health Law II: Regulation, Organization and Finance

**LAW 8796 Economics And The Law**
Tools of economic analysis which have particular application in the law; equity and efficiency are weighed in regulation, pollution, discrimination, monopoly, financial markets, human resources and government expenditure and taxation policy. Principles will be introduced and expanded upon using both lecture and case study techniques.

**LAW 8797 Business Torts And Unfair Competition**
The common law applicable to relations between businesses that compete against each other or that cooperate with each other in the production and distribution of the same product. Tort, contract and property law principles as remedies not available in parallel statutory schemes, such as the antitrust or patent laws. Statutes that codify the common law or create statutory procedures or remedies for common law rights. (Consent of the instructor required for students who have taken Copyright, Patent and Trademark Law).

**LAW 8797 Business Torts And Unfair Competition**
The common law applicable to relations between businesses that compete against each other or that cooperate with each other in the production and distribution of the same product. Tort, contract and property law principles as remedies not available in parallel statutory schemes, such as the antitrust or patent laws. Statutes that codify the common law or create statutory procedures or remedies for common law rights. (Consent of the instructor required for students who have taken Copyright, Patent and Trademark Law).
LAW 8798 Copyright Law
Protection extended to works of authorship including literacy works, computer programs, works of applied art, sound recordings, photographs, etc. under U.S. copyright law. How protection for works is achieved, the nature of rights protected, transfer of rights, and infringement actions. Related common law rights that may exist under doctrines such as implied contract, unfair competition, right of privacy, and right of publicity. (Consent of the instructor is required for students who have taken Copyright, Patent, and Trademark Law).

LAW 8798 Copyright Law
Protection extended to works of authorship including literacy works, computer programs, works of applied art, sound recordings, photographs, etc. under U.S. copyright law. How protection for works is achieved, the nature of rights protected, transfer of rights, and infringement actions. Related common law rights that may exist under doctrines such as implied contract, unfair competition, right of privacy, and right of publicity. (Consent of the instructor is required for students who have taken Copyright, Patent, and Trademark Law).

LAW 8800 Legal Research Thesis
Research for LL.M. thesis.

LAW 8800 Legal Research Thesis
Research for LL.M. thesis.

LAW 8808 Intellectual Property Law
Substantive and procedural law of intellectual property. Coverage includes copyrights and patents and other areas at the option of the instructor.

LAW 8808 Intellectual Property Law
Substantive and procedural law of intellectual property. Coverage includes copyrights and patents and other areas at the option of the instructor.

LAW 8808 Intellectual Property Law
This course focuses on the main principles of protection and obligations of the signatories to the World Trade Organization Trade Related Intellectual Property Agreement (GATT/TRIP’s) – in particular focusing on the main intellectual property and Industrial property rights, including (1) Copyright, (2) Performers Rights, (3) Patents, (4) Trade Marks, and (5) Related rights such as unfair competition and the protection of geographical indications; and addresses what the obligations are that are imposed on signatories in respect of protection and enforcement of these rights.

LAW 8808 Intellectual Property Licensing
This course provides for advanced engagement with intellectual property concepts while also providing training in practical skills. The course will first entail reminding students of the differences among the three essential areas of intellectual property law (copyright, patent, and trademark) and indentifying how these differences translate into different standard license agreements. Additionally, students will consider the challenges in drafting a consolidated license agreement that transfers interests in multiple types of intellectual property. Second, the course will include considerable practice for students in drafting contract language.

LAW 8808 Intellectual Property Remedies
This course will explore the remedies available to intellectual property owners and the protections available to those accused of infringing copyrights, trademarks, trade secrets and patents. The course will delve into issues of how rapidly advancing technology has made it more difficult to apply the current remedies and explore whether they go too far or not far enough in protecting owners of intellectual property. It will also help students recognize that case evaluation does not end after analyzing whether liability exists.

LAW 8813 Employment Discrimination Law

LAW 8813 Employment Discrimination Law

LAW 8814 Appellate Practice Clinic
Students represent appellants before the western district court of appeals in their appeals from denial of unemployment compensation. Students attend training sessions to learn relevant substantive and procedural law of unemployment compensation, and then assist in reviewing files to select cases for appeal and contacting potential clients, review records and transcripts of the selected cases, meet with the clients, research and write the brief and reply briefs, and argue the cases on appeal. Students must
Leadership In Disability Studies: A Multidisciplinary Approach
An overview of the history of disability issues, some individualized perspectives of persons with disabilities, the rationale for interdisciplinary approaches regarding disability studies, and opportunities for leadership development with regard to disability issues. The students will participate in a forum that encourages reflection, exchange of ideas, interaction with persons with disabilities and persons from various fields of study, and case analysis. After an orientation to the study of disabilities, various aspects of community membership for persons with disabilities will be addressed, particularly with regard to the workplace, the neighborhood, and the home. Emphasis will be placed on vital leadership roles that facilitate community membership and contribution of persons with disabilities to society.
neighborhood, and the home. Emphasis with placed on vital leadership roles that facilitate community membership and contribution of persons with disabilities to society.

**LAW 8820 Criminal Trial Techniques**
Strategy and tactics in handling a criminal case; effective representation of the accused at various stages of the criminal process; securing pre-trial release; plea bargaining; motion practice; discovery; voir dire; opening and closing statements; examination of witnesses; use of the expert; sentencing; appeal; collateral attack.

**LAW 8820 Criminal Trial Techniques**
Strategy and tactics in handling a criminal case; effective representation of the accused at various stages of the criminal process; securing pre-trial release; plea bargaining; motion practice; discovery; voir dire; opening and closing statements; examination of witnesses; use of the expert; sentencing; appeal; collateral attack.

**LAW 8822 Post Conviction Remedies**
Federal and state remedies for collateral attacks on criminal convictions; vacation of sentences and convictions; federal habeas corpus and similar devices. Paper required when course is offered as a seminar. Prerequisite: Criminal Procedure I.

**LAW 8826 Seminar In Constitutional Interpretation**
Current issues in constitutional law. Paper required. Prerequisites: Constitutional Law I.

**LAW 8826 Seminar In Constitutional Interpretation**
Current issues in constitutional law. Paper required. Prerequisites: Constitutional Law I.

**LAW 8831 International Human Rights Law**
Study of the law protecting individuals and groups against governmental violations of internationally guaranteed rights; historical antecedents and theoretical underpinnings; human rights in national law (the United States); post World War II developments; principal international human rights instruments; regional human rights arrangements; human rights of women, refugees, ethnic minorities; implementation of rights; international obligations of the United States; selected civil, political, economic and social rights.

**LAW 8831R International Human Rights Law**
Study of the law protecting individuals and groups against governmental violations of internationally guaranteed rights; historical antecedents and theoretical underpinnings; human rights in national law (the United States); post World War II developments; principal international human rights instruments; regional human rights arrangements; human rights of women, refugees, ethnic minorities; implementation of rights; international obligations of the United States; selected civil, political, economic and social rights.

**LAW 8831R International Human Rights Law**
Study of the law protecting individuals and groups against governmental violations of internationally guaranteed rights; historical antecedents and theoretical underpinnings; human rights in national law (the United States); post World War II developments; principal international human rights instruments; regional human rights arrangements; human rights of women, refugees, ethnic minorities; implementation of rights; international obligations of the United States; selected civil, political, economic and social rights.

**LAW 8832 Law Of International Trade And Finance**
Study of the World Trading System, focusing on policy and application, including the WTO, the NAFTA, U.S. trade remedies, foreign direct investments controls, and export controls.

**LAW 8832 Law Of International Trade And Finance**
Study of the World Trading System, focusing on policy and application, including the WTO, the NAFTA, U.S. trade remedies, foreign direct investments controls, and export controls.

**LAW 8832I Introduction to International Trade**
An examination of the structure and workings of the major global trade regimes, including the World Trade Organization ("WTO") and the North American Free Trade Agreement (the "NAFTA"). The role of international trade in such areas as the environment, labor rights, national security, the developing world, and non-market economies will also be considered. The course will also focus in depth on United States domestic trade remedies, including antidumping, countervailing duties, section 301 and 337 actions as well as on other international trade restricting practices.

**LAW 8834 Tax Procedure**
Problem-method study of procedures and taxpayers' rights when deficiencies are assessed by the Internal Revenue Service; tax
liens; commencement of litigation in Tax Court, Federal District Court, and Court of Claims.

**LAW 8834 Tax Procedure**
Problem-method study of procedures and taxpayers' rights when deficiencies are assessed by the Internal Revenue Service; tax liens; commencement of litigation in Tax Court, Federal District Court, and Court of Claims.

**LAW 8834R Tax Clinic**
Students counsel clients in federal, state and local tax controversy matters in the Kansas City Tax clinic, under the supervision and direction of tax faculty, clinic director, and volunteer attorneys. Classroom instruction in the area of tax controversy procedure and client counseling. Prerequisite: Federal Income Tax and Tax procedure (or concurrent enrollment). Method of grading: Pass/Fail.

**LAW 8834R Tax Clinic**
Students counsel clients in federal, state and local tax controversy matters in the Kansas City Tax clinic, under the supervision and direction of tax faculty, clinic director, and volunteer attorneys. Classroom instruction in the area of tax controversy procedure and client counseling. Prerequisite: Federal Income Tax and Tax procedure (or concurrent enrollment). Method of grading: Pass/Fail.

**LAW 8837 Negotiating Mergers And Acquisitions**
Problem-method study of corporate, tax, securities, and business problems entailed in buying and selling a corporation; fundamental corporate changes: recapitalizations, mergers, sale of assets, sale of stock, and tender offers; corporate finance and rehabilitation of financially distressed corporations.

**LAW 8837 Negotiating Mergers And Acquisitions**
Problem-method study of corporate, tax, securities, and business problems entailed in buying and selling a corporation; fundamental corporate changes: recapitalizations, mergers, sale of assets, sale of stock, and tender offers; corporate finance and rehabilitation of financially distressed corporations.

**LAW 8838 Legal Accounting**
Accounting as it relates to the work of a lawyer. Understanding financial statements (balance sheet, income statement, cash flow, shareholder's equity), analysis of financial statements; deferral concepts (inventory, depreciation, prepaid expenses), understanding accounting principles, valuation (present value, future value.).

**LAW 8838L Legal Accounting**
Accounting as it relates to the work of a lawyer. Understanding financial statements (balance sheet, income statement, cash flow, shareholder's equity), analysis of financial statements; deferral concepts (inventory, depreciation, prepaid expenses), understanding accounting principles, valuation (present value, future value.).

**LAW 8838L Legal Accounting**
Accounting as it relates to the work of a lawyer. Understanding financial statements (balance sheet, income statement, cash flow, shareholder's equity), analysis of financial statements; deferral concepts (inventory, depreciation, prepaid expenses), understanding accounting principles, valuation (present value, future value.).

**LAW 8838R Tax Practicum I**
Practical skills training in the sources and methods of tax research (including electronic database sources) using problem method approaches; analytical and planning skills are developed through in-depth case study research.

**LAW 8838R Tax Practicum I**
Practical skills training in the sources and methods of tax research (including electronic database sources) using problem method approaches; analytical and planning skills are developed through in-depth case study research.

**LAW 8843 Federal Income Taxation Of Estates And Trusts**
Income tax problems of the fiduciary; grantor's trusts; income, estate, and gift tax problems relating to optional or discretionary acts of the fiduciary in retention and/or distribution of income or corpus.

**LAW 8843 Federal Income Taxation Of Estates And Trusts**
Income tax problems of the fiduciary; grantor's trusts; income, estate, and gift tax problems relating to optional or discretionary acts of the fiduciary in retention and/or distribution of income or corpus.

**LAW 8845 Deferred Compensation**
Problem-method study of deferred compensation arrangements; qualified pension and profit sharing plans; individual retirement
accounts; qualified stock option plans; other methods of deferred compensation.

LAW 8845 Deferred Compensation
Problem-method study of deferred compensation arrangements; qualified pension and profit sharing plans; individual retirement accounts; qualified stock option plans; other methods of deferred compensation.

LAW 8846 Professional Malpractice Litigation
Negligence by those in professions; consideration of the practice components of litigating legal malpractice claims, including investigation, jurisdiction, legal theory and defenses, pleading, discovery, trial, expert testimony, jury instructions and judgment. Prerequisite or co-requisite: Professional Responsibility

LAW 8848 State And Local Taxation
State and local taxation of income, sales and property, including the apportionment of tax obligations to multiple states. Restrictions imposed by constitutional doctrines such as the uniformity and equality requirement and the prohibition on interfering with interstate commerce.

LAW 8848R State And Local Taxation
State and local taxation of income, sales and property, including the apportionment of tax obligations to multiple states. Restrictions imposed by constitutional doctrines such as the uniformity and equality requirement and the prohibition on interfering with interstate commerce.

LAW 8848R State And Local Taxation
State and local taxation of income, sales and property, including the apportionment of tax obligations to multiple states. Restrictions imposed by constitutional doctrines such as the uniformity and equality requirement and the prohibition on interfering with interstate commerce.

LAW 8850 Applied Evidence
Problems and simulations in evidence; application of the rules of evidence in many of the following topic areas: objections to the form of the question; hearsay; lay and expert opinion; authentication, the introduction of real and demonstrative evidence, rules of relevance, cross-examination and impeachment.

LAW 8850 Applied Evidence
Problems and simulations in evidence; application of the rules of evidence in many of the following topic areas: objections to the form of the question; hearsay; lay and expert opinion; authentication, the introduction of real and demonstrative evidence, rules of relevance, cross-examination and impeachment.

LAW 8853R Seminar In Law, Science & Technology
A research seminar which provides a survey of cutting edge issues that arise when the law is forced to confront advances in science and technology and in which students working individually research, write and present on a current law and science or technology topic, such as the facilitation, funding, protection and commercialization of technology; the transfer of technology from the public to private sector; intellectual property issues; bioterrorism; industrial espionage and the protection of trade secrets; technology in the courtroom; scientific evidence; bioethics; forensic anthropology; agricultural biotechnology and cyber law.

LAW 8858 Consumer Protection
Protection of consumers from false advertising, unfair sales practices, and consumer credit and debt collection abuse. Topics which may be covered are Truth-in-Lending Act, Uniform Consumer Credit Code, Fair Debt Collection Practices Act; Interstate Land Sales Disclosure Act, Federal Trade Commission and Missouri Attorney General activity, Missouri consumer credit legislation, consumer warranties, consumer class actions, abusive collection practices.

LAW 8858 Consumer Protection
Protection of consumers from false advertising, unfair sales practices, and consumer credit and debt collection abuse. Topics which may be covered are Truth-in-Lending Act, Uniform Consumer Credit Code, Fair Debt Collection Practices Act; Interstate Land Sales Disclosure Act, Federal Trade Commission and Missouri Attorney General activity, Missouri consumer credit legislation, consumer warranties, consumer class actions, abusive collection practices.

LAW 8858L Consumer Protection Lab
This course provides students with skills needed for reviewing and investigating consumer complaints; developing problem solving strategies and drafting Attorney General letters, pleadings, and other documents necessary for the enforcement of the complaint. Students work with the Missouri Attorney General's office to screen consumer complaints and recommend actions. Prerequisite: Consumer Protection.
LAW 8861 Real Estate Finance
Real estate investment and development; basic financing instruments (e.g., mortgages, deeds of trusts, contracts for deed); foreclosure remedies; home finance, national housing market; financing of commercial and industrial properties; construction financing; mechanic's liens; priority disputes; bankruptcy issues affecting real estate security interests.

LAW 8867 Social Security Administration Law Clinic
Students assist an Administrative Law Judge in performing duties handled by the Social Security Administration, including reviewing files of pending cases; conducting legal research; attending hearings and participating in conferences, as assigned; preparing recommendations for the disposition of motions and for on the record decisions; and preparing draft decisions. Students are supervised by an attorney advisor and attend regular conferences with a supervising faculty member who reviews copies of all clinic written work that may be so reviewed under Social Security Administration rules. Prerequisite: Administrative Law. Ungraded. Pass/Fail.

LAW 8867R Social Security Administration Law Clinic
Students assist an Administrative Law Judge in performing duties handled by the Social Security Administration, including reviewing files of pending cases; conducting legal research; attending hearings and participating in conferences, as assigned; preparing recommendations for the disposition of motions and for on the record decisions; and preparing draft decisions. Students are supervised by an attorney advisor and attend regular conferences with a supervising faculty member who reviews copies of all clinic written work that may be so reviewed under Social Security Administration rules. Prerequisite: Administrative Law. Ungraded. Pass/Fail.

LAW 8868 Trusts: Planning, Drafting, Administering & Litigating
Focus on advanced planning and drafting of inter vivos private express trusts for individuals, including proper use of readily available forms (tax-related drafting limited to marital and charitable deduction forms), consideration of trustee's duties, powers and liabilities pursuant to the Missouri Trust Code and related cases, and special emphasis on the recently-adopted Uniform Investor Act and the significant changes it has introduced to Missouri trust investment law. Estates & Trusts is a prerequisite to this course, and concurrent enrollment in Estate Planning & Drafting is advised.

LAW 8868R Trusts: Planning, Drafting, Administering & Litigating
Focus on advanced planning and drafting of inter vivos private express trusts for individuals, including proper use of readily available forms (tax-related drafting limited to marital and charitable deduction forms), consideration of trustee's duties, powers and liabilities pursuant to the Missouri Trust Code and related cases, and special emphasis on the recently-adopted Uniform Investor Act and the significant changes it has introduced to Missouri trust investment law. Estates & Trusts is a prerequisite to this course, and concurrent enrollment in Estate Planning & Drafting is advised.

LAW 8870 Education Law: Government & Legal Aspects Of Education
This course is designed to give students an introduction to the major legal doctrines that affect K-12 schools, as well as the policies that underlie or are changing those doctrines. Students should gain a working understanding of the impact of federal and state law on the operation of schools, the rights and responsibilities of teachers and administrators, and the rights of the students who attend those schools.

LAW 8870R Education Law: Government & Legal Aspects Of Education
This course is designed to give students an introduction to the major legal doctrines that affect K-12 schools, as well as the policies that underlie or are changing those doctrines. Students should gain a working understanding of the impact of federal and state law on the operation of schools, the rights and responsibilities of teachers and administrators, and the rights of the students who attend those schools.

LAW 8870R Education Law: Government & Legal Aspects Of Education
This course is designed to give students an introduction to the major legal doctrines that affect K-12 schools, as well as the policies that underlie or are changing those doctrines. Students should gain a working understanding of the impact of federal and state law on the operation of schools, the rights and responsibilities of teachers and administrators, and the rights of the students who attend those schools.
LAW 8874 Tax-Exempt Organizations
An in-depth examination of the state and federal laws that govern the formation and operation of tax-exempt organizations, with emphasis on Sec. 501 (c) (3) charities; criteria for tax-exempt status; IRS application and reporting procedures; unrelated business income tax issues.

LAW 8874 Tax-Exempt Organizations
An in-depth examination of the state and federal laws that govern the formation and operation of tax-exempt organizations, with emphasis on Sec. 501 (c) (3) charities; criteria for tax-exempt status; IRS application and reporting procedures; unrelated business income tax issues.

LAW 8875 Real Estate Transactions
Practice-oriented course, including the development of drafting skills, in which questions involving basic residential and commercial real estate sales and civil and leasing transactions are considered, such as title, title insurance, contract conditions, contract remedies, commercial leasing (office and shopping center issues) and issues concerning and confronting brokers; special emphasis on Missouri and Kansas law.

LAW 8875 Real Estate Transactions
Practice-oriented course, including the development of drafting skills, in which questions involving basic residential and commercial real estate sales and civil and leasing transactions are considered, such as title, title insurance, contract conditions, contract remedies, commercial leasing (office and shopping center issues) and issues concerning and confronting brokers; special emphasis on Missouri and Kansas law.

LAW 8875D Commercial Lease Drafting
Students learn terms common to commercial leases and how to draft documents. Issues and drafting assignments include letters of intent; timing issues; rent provisions; use clauses; environmental and maintenance issues; transfers; insurance; remedies; subordination and atonement; negotiation; professionalism and ethics.

LAW 8875L Legal Context of Real Estate Decision Making
A study of fundamental matters involved in real estate decision making, including an understanding of basic real estate terms of art; the unique attributes of commercial real estate the distinction between office, retail and industrial property leases; the significant business and legal issues that arise in lease negotiations; financing issues, including the negotiation of construction and permanent loan documents; loan application/brokerage agreements; the impact of bankruptcy on real estate transactions; an explanation of different types of insurance coverage applicable to commercial real estate; and construction issues, including how buildings are constructed and the "green" movement impact on current construction practices.

LAW 8877 Bankruptcy Court Clerkship
The United States Bankruptcy Courts have jurisdiction over claims arising under federal bankruptcy law. Cases in these courts present issues arising not only under the Bankruptcy Code, but also in many other areas, such as secured transactions, contract law, labor law, and tax law. Student interns will, among other duties, observe court proceedings, assist in writing legal memoranda, and craft opinions. Enrollment in the Bankruptcy Court Clerkship Program is limited to students who have completed both Secured Transactions and Debtors & Creditor's Rights. Students work at least 70 hours at the court; and attend monthly conferences with the professor in charge of the program's over site.

LAW 8877 Bankruptcy Court Clerkship
The United States Bankruptcy Courts have jurisdiction over claims arising under federal bankruptcy law. Cases in these courts present issues arising not only under the Bankruptcy Code, but also in many other areas, such as secured transactions, contract law, labor law, and tax law. Student interns will, among other duties, observe court proceedings, assist in writing legal memoranda, and craft opinions. Enrollment in the Bankruptcy Court Clerkship Program is limited to students who have completed both Secured Transactions and Debtors & Creditor's Rights. Students work at least 70 hours at the court; and attend monthly conferences with the professor in charge of the program's over site.

LAW 8880 Consumer Bankruptcy
Comprehensive analysis of the options available to consumer debtors under chapters 7 and 13 of the Bankruptcy Code. While the primary focus will be on the debtor's options, creditor strategies will also be considered. Recommended: DebtorCreditor Rights.

LAW 8880 Consumer Bankruptcy
Comprehensive analysis of the options available to consumer debtors under chapters 7 and 13 of the Bankruptcy Code. While the primary focus will be on the debtor's options, creditor strategies will also be considered. Recommended: DebtorCreditor Rights.

LAW 8881 Seminar On The Supreme Court
Students simulate the work of the Supreme Court on nine cases presently pending before that court. The student justices study the briefs and related material filed in each case, discuss and vote on the cases, and write majority and dissenting opinions.

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Enrollment in the seminar is limited-fittingly--to nine justices.

**LAW 8881 Seminar On The Supreme Court**
Students simulate the work of the Supreme Court on nine cases presently pending before that court. The student justices study the briefs and related material filed in each case, discuss and vote on the cases, and write majority and dissenting opinions. Enrollment in the seminar is limited-fittingly--to nine justices.

**LAW 8882 Patent Law**
This course will focus primarily on substantive U.S. patent law, including the laws governing the patentability of particular inventions, the patent procurement process, the rights granted by a patent, and patent enforcement and litigation. As time permits, the course will explore policy issues raised by the current patent system, discuss proposals for reform and international harmonization, and consider alternatives to patent protection such as trade secret and regulatory exclusivity.

**LAW 8882 Patent Prosecution**
This course will focus primarily on the practical application of substantive U.S. patent law, including the laws governing the patentability of particular inventions, the patent procurement process, the rights granted by a patent, and patent enforcement and litigation. In particular, this class will focus on teaching students how to draft a patent application and how to prosecute the application in the U.S. Patent and Trademark office. This class will be designed to mirror the substantive patent law being taught in the Patent Law course. For example, the Patent Law course will present the law and theory of obviousness or novelty; the Patent Prosecution course will instruct in how to deal with and respond to an obviousness or novelty rejection from the U.S. Patent and Trademark Office. Pre or Co-requisite: Law 8882, Patent Law.

**LAW 8883 Seminar In National Security Law**
Consideration of lawyer involvement in the formulation and execution of national security policy. Concentration will be upon the practice of law in the public sector. In an interdisciplinary undertaking, this course will define national security and examine its historic and theoretical roots. Domestically, Constitutional principles and rules will be studied. Use of force will be explored from the vantage point of ethics, international law, and the law of war. Legal issues surrounding problems of control of international terrorism, low intensity conflict, planning and using rules of engagement, and supporting international peace-keeping and peace-making missions will be discussed.

**LAW 8884 White Collar Crime**
Examines substantive federal law in the areas of fraud, public corruption, financial crimes and conspiracy; it also includes examination of procedural and policy issues related to business and white-collar investigations. Prerequisites: Criminal Law.

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Examines substantive federal law in the areas of fraud, public corruption, financial crimes and conspiracy; it also includes examination of procedural and policy issues related to business and white-collar investigations. Prerequisites: Criminal Law.

**LAW 8885 Seminar In Philosophy And Law**
An examination from a philosophical perspective of the historical and conceptual relationships present in the evolution, development and analysis of law, including natural law theory, legal positivism and legal realism, and focusing on a specific area of controversy in the law.
**LAW 8885H** The Quest for a Satisfying Career in Law

An examination of what research suggests about the likelihood that a career in law will prove satisfying, including an exploration of the specific types of firms and work environments that are most likely to produce happy lawyers; a consideration of what studies from the fields of neuroscience and psychology suggest about steps that lawyers, law firms, and law schools can take to improve prospects for career satisfaction; and a consideration of how high happiness should rank among life's goals.

**LAW 8886** Corporate Taxation I

Tax treatment of corporations and shareholders with respect to formation, non-liquidating distributions, stock dividends, redemptions and liquidations. The course will also cover the personal holding company tax, the accumulated earnings tax, collapsible corporations, multiple corporations and an overview of S corporations.

**LAW 8886** Corporate Taxation I

Tax treatment of corporations and shareholders with respect to formation, non-liquidating distributions, stock dividends, redemptions and liquidations. The course will also cover the personal holding company tax, the accumulated earnings tax, collapsible corporations, multiple corporations and an overview of S corporations.

**LAW 8887** Corporate Taxation II

Tax consequences of corporate reorganizations; survival of tax attributes; acquisition of loss corporations; and a survey of consolidated return reporting. Prerequisite: Corporate Taxation or Instructor's permission.

**LAW 8887** Corporate Taxation II

Tax consequences of corporate reorganizations; survival of tax attributes; acquisition of loss corporations; and a survey of consolidated return reporting. Prerequisite: Corporate Taxation or Instructor's permission.

**LAW 8888** Advanced Partnership Taxation

A study of selected topics in tax planning and in negotiating and drafting organizational documents (e.g. partnership agreements and operating agreements) for entities that will be classified as partnerships for tax purposes, including advanced exploration of issues relating to special allocations and book/tax disparities, optional adjustments to basis, payment to retiring and deceased partners, the impact of I.R.C. Section 751 on partnership distributions and on sales and exchanges of partnership interests, partnership mergers and divisions, partnerships with tax-exempt partners, and tiered partnerships. Prerequisite: Partnership Taxation (law #8888R) or a comparable course from another law school approved by instructor.

**LAW 8888A** Advanced Partnership Taxation

A study of selected topics in tax planning and in negotiating and drafting organizational documents (e.g. partnership agreements and operating agreements) for entities that will be classified as partnerships for tax purposes, including advanced exploration of issues relating to special allocations and book/tax disparities, optional adjustments to basis, payment to retiring and deceased partners, the impact of I.R.C. Section 751 on partnership distributions and on sales and exchanges of partnership interests, partnership mergers and divisions, partnerships with tax-exempt partners, and tiered partnerships. Prerequisite: Partnership Taxation (law #8888R) or a comparable course from another law school approved by instructor.

**LAW 8888R** Partnership Taxation

An in depth examination of the tax principles governing partnerships limited liability companies and other unincorporated organizations classified as partnerships for tax purposes, including questions involving the tax consequences of the formation of such organizations, operating distributions, basis computations, liquidating distributions, and sales of ownership interests.

**LAW 8888R** Partnership Taxation

An in depth examination of the tax principles governing partnerships limited liability companies and other unincorporated organizations classified as partnerships for tax purposes, including questions involving the tax consequences of the formation of such organizations, operating distributions, basis computations, liquidating distributions, and sales of ownership interests.

**LAW 8889** International Taxation

An introduction to the taxation of income of U.S. citizens, residents and corporations from foreign sources and the income of foreign residents and non-residents from U.S. sources. Topics may include sources of income rules, foreign tax credit provisions, the earned income exclusion for foreign source income, income tax treaties and a survey of the tax treatment of U.S. investments made offshore.

**LAW 8889** International Taxation

An introduction to the taxation of income of U.S. citizens, residents and corporations from foreign sources and the income of foreign residents and non-residents from U.S. sources. Topics may include sources of income rules, foreign tax credit provisions, the earned income exclusion for foreign source income, income tax treaties and a survey of the tax treatment of U.S. investments made offshore.
LAW 8890 Entertainment Law
An examination of the legal issues affecting the print and broadcast media. Topics covered may include copyright, antitrust, spectrum allocation, right of privacy, first amendment issues (prior restraint, obscenity, commercial speech, defamation and access to both information and judicial proceedings), licensing and new technologies including and beyond cable television.

LAW 8890A Sports Law I, Amateur Sports Law
Coverage of various amateur sports law issues with a focus on the regulation of interscholastic, intercollegiate sports, Olympic and international sports, and sports broadcasting; including such topics as constitutional law, tort law, contract law, and Title IX gender discrimination; and a consideration of federal disability discrimination laws, the status of collegiate athletes who participate in big time sports programs, the regulatory authority of the National Collegiate Athletics Association, The National High School Athletic Association, international and Olympic sports organizations.

LAW 8890A Sports Law I, Amateur Sports Law
Coverage of various amateur sports law issues with a focus on the regulation of interscholastic, intercollegiate sports, Olympic and international sports, and sports broadcasting; including such topics as constitutional law, tort law, contract law, and Title IX gender discrimination; and a consideration of federal disability discrimination laws, the status of collegiate athletes who participate in big time sports programs, the regulatory authority of the National Collegiate Athletics Association, The National High School Athletic Association, international and Olympic sports organizations.

LAW 8890B Sports Law II, Professional Sports Law
A focus upon the multitude of legal issues and unique relationships in the sports industry, including, among other issues, professional team sports, other professional sports, facilities management in professional sports, legal implications and the practical realities of the unique labor-management relationships in professional sports. The most significant areas to be studied in the context are antitrust, labor, communications, taxation, contracts law, and intellectual property law.

LAW 8890R Entertainment Law
An examination of the legal issues affecting the print and broadcast media. Topics covered may include copyright, antitrust, spectrum allocation, right of privacy, first amendment issues (prior restraint, obscenity, commercial speech, defamation and access to both information and judicial proceedings), licensing and new technologies including and beyond cable television.

LAW 8890R Entertainment Law
An examination of the legal issues affecting the print and broadcast media. Topics covered may include copyright, antitrust, spectrum allocation, right of privacy, first amendment issues (prior restraint, obscenity, commercial speech, defamation and access to both information and judicial proceedings), licensing and new technologies including and beyond cable television.

LAW 8890X Sports Law Internship
Through internship in not-for-profit and for-profit sectors of the sports industry, students will learn about the legal and business aspects of various organizations within the amateur and professional sports industries. Students will observe and assist legal counsel with such activities as providing legal research, planning and conducting negotiations, and drafting contracts and other legal documents. Students will complete a significant legal research memorandum on an issue related to their internship. Faculty and Legal Aid attorney supervision. Limited enrollment. Pre- or co-requisite: Amateur Sports Law or Professional Sports Law. Pass/Fail

LAW 8892 Taxation Of Estates, Gifts And Trusts
Problem method study of estate, gift and generation skipping transfer taxes and the income taxation of estates and trusts. Emphasis on lifetime and post-mortem planning as well as compliance requirements.

LAW 8892R Taxation Of Estates, Gifts And Trusts
Problem method study of estate, gift and generation skipping transfer taxes and the income taxation of estates and trusts. Emphasis on lifetime and post-mortem planning as well as compliance requirements.

LAW 8892R Taxation Of Estates, Gifts And Trusts
Problem method study of estate, gift and generation skipping transfer taxes and the income taxation of estates and trusts. Emphasis on lifetime and post-mortem planning as well as compliance requirements.

LAW 8893 Taxation Of Property Transactions
Income taxation of property transactions. Detailed study of capital gains and losses, passive losses, the at-risk rules, and the alternative minimum tax.

LAW 8893R Taxation Of Property Transactions
Income taxation of property transactions. Detailed study of capital gains and losses, passive losses, the at-risk rules, and the
alternative minimum tax.

**LAW 8893R Taxation Of Property Transactions**
Income taxation of property transactions. Detailed study of capital gains and losses, passive losses, the at-risk rules, and the alternative minimum tax.

**LAW 8895 Jury Selection**
Students study the purpose of voir dire and the law pertaining to jury selection and receive hands-on experience in selecting a jury role-playing as lawyers; jurors, and presiding judge in a concluding 2 1/2 hour courtroom simulation (where a jury is selected after making challenges for cause and exercising preemptory strikes); and learn that jury selection is an art—not a science—which needs to be tailored to the facts of the case and the witnesses the attorney expects to present. An actual case involving a badly injured young plaintiff and a large corporate defendant—where liability is questionable—is used for the simulation. Students learn active listening skills and how to interpret non-verbal behavior. Examples form prominent, practicing lawyers are presented. The course is graded on a pass/fail basis.

**LAW 8895S Jury Selection**
Students study the purpose of voir dire and the law pertaining to jury selection and receive hands-on experience in selecting a jury role-playing as lawyers; jurors, and presiding judge in a concluding 2 1/2 hour courtroom simulation (where a jury is selected after making challenges for cause and exercising preemptory strikes); and learn that jury selection is an art—not a science—which needs to be tailored to the facts of the case and the witnesses the attorney expects to present. An actual case involving a badly injured young plaintiff and a large corporate defendant—where liability is questionable—is used for the simulation. Students learn active listening skills and how to interpret non-verbal behavior. Examples form prominent, practicing lawyers are presented. The course is graded on a pass/fail basis.

**LAW 8897 Seminar In Analytical Strategies**
Pedagogical philosophy of legal education; common themes in first-year legal education; techniques of cooperative learning of legal materials. Students may act as study group leaders for various first-year course subjects. Ungraded.

**LAW 8897 Seminar In Analytical Strategies**
Pedagogical philosophy of legal education; common themes in first-year legal education; techniques of cooperative learning of legal materials. Students may act as study group leaders for various first-year course subjects. Ungraded.

**LAW 8897R Governmental and Legal Aspects of Education (K-12 Schools)**
Study of legal issues within higher education. Focus is on state and federal law and regulations as they pertain to issues from academic freedom to governance and administration. Focus on strategies for preventive law is a major component of the course.

**LAW 8897R Governmental and Legal Aspects of Education (K-12 Schools)**
Study of legal issues within higher education. Focus is on state and federal law and regulations as they pertain to issues from academic freedom to governance and administration. Focus on strategies for preventive law is a major component of the course.

**LAW 8898 Construction Law**
The Construction Law course would emphasize state and federal construction law and would provide the students with practical experience in drafting contracts, negotiating disputes, and conducting a mock arbitration. The course would cover the contract responsibilities and remedies of contractors, subcontractors, design professionals, sureties and owners, including the United States Government. The course would emphasize the controlling state and federal statutes and regulations, as well as case law which illustrates the application of the statutes and other areas of law not covered by statute. The classroom sessions will include discussion of the practical aspects of legal practice in the construction industry, with instruction and examples regarding the drafting of documents and contracts, negotiation of disputes, and decision-making regarding the type of dispute resolution forum to recommend to a client.

**LAW 8898 Construction Law**
The Construction Law course would emphasize state and federal construction law and would provide the students with practical experience in drafting contracts, negotiating disputes, and conducting a mock arbitration. The course would cover the contract
responsible for investigating, as well as responsibilities and remedies of contractors, subcontractors, design professionals, sureties and owners, including the United States Government. The course would emphasize the controlling state and federal statutes and regulations, as well as case law which illustrates the application of the statutes and other areas of law not covered by statute. The classroom sessions will include discussion of the practical aspects of legal practice in the construction industry, with instruction and examples regarding the drafting of documents and contracts, negotiation of disputes, and decision-making regarding the type of dispute resolution forum to recommend to a client.

**LAW 8900** Takings Law
An examination of all aspects of takings law including the historical and constitutional basis for eminent domain, the public use requirement, regulatory takings, development exactions, and alternatives to takings. Comparisons between U.S. and state regimes and comparative takings law.

**LAW 8901** Advising Life Sciences and Technology Entrepreneurs
A condensed study of the key legal issues for the entire cradle-to-grave (founding-to-exit transaction) life cycle of high-growth technology and life sciences ventures, focusing on these critical phases: structuring and organizing the high-growth venture; relationships with key constituencies; acquiring, protecting and licensing intellectual property assets; financing transactions and realizing wealth through exit transactions. Prerequisites: Business Organizations

**LAW 8901** Advising Life Sciences and Technology Entrepreneurs
A condensed study of the key legal issues for the entire cradle-to-grave (founding-to-exit transaction) life cycle of high-growth technology and life sciences ventures, focusing on these critical phases: structuring and organizing the high-growth venture; relationships with key constituencies; acquiring, protecting and licensing intellectual property assets; financing transactions and realizing wealth through exit transactions. Prerequisites: Business Organizations

**LAW 8902** Topics and Cases Related to In-House Counsel
This course surveys a wide range of legal issues from the in-house counsel perspective, including those related to professional responsibility, corporate governance, transactions, compliance, risk management, intellectual property and litigation. Through the use of case studies, students will use legal principles and business judgement to analyze scenarios in various corporate settings. Prerequisites: Business Organizations.

**LAW 8903** Fundamentals of Investigations
This course focuses on skills and methods needed to fully obtain facts so as to determine strategies and analyze possible outcomes for all stages of litigation, both criminal and civil. Detailed information on searching public records, internet sites, and other document retrieval, as well as methods to locate people are provided to students through interactive format. Using an investigation on a parallel tracks approach, i.e., paper and people, students learn the relationship between documents and thorough, reliable interviewing of clients and witnesses.

**LAW 8903B** Business Investigations
The course will cover the practical aspects of conducting fact investigations in the business environment, with a focus on planning, staffing and managing business investigations, understanding and developing investigative techniques appropriate for the business environment and communicating the results of investigations and related recommendations to management and others. A theme throughout the course will be how the lawyer of business manager who is charged with the responsibility of conducting an investigation can maintain independence and avoid being compromised by pressures from management, media or other external sources of influence. Guest lecturers will include professionals with experience in the discipline. Prerequisites: Bus. Org; Empl. Disc; White Collar Crime; Bus. Pla.

**LAW 8904** Multicultural Lawyering and Spanish for Lawyers
In this course, students acquire skills and knowledge needed to represent Spanish speaking clients, including mastering selected Spanish legal vocabulary, working with translators, conducting initial client interviews, and identifying cultural impacts on communication. Ethical dimensions of cross-linguistic and cross-cultural counseling are examined and students receive training in counseling skills. Prerequisites: Consent of instructor.

**LAW 8905** Intellectual Property Litigation
Advanced engagement with intellectual property concepts and practical skills in litigation of these cases. The course will address the three essential areas of intellectual property law concept (copyright, patent, and trademark) and explore how these differences translate into different procedural and substantive considerations in litigation. Simulations of various stages of litigation will focus on litigation strategy and drafting skills.

This course examines the mechanisms available to corporate executives, auditors, attorneys and boards to comply with state, federal and international laws related to compliance and governance. Students study and examine the impact of a conflict between these laws and cultural norms; Federal Sentencing Guidelines, Securities and Exchange Commission Regulations,
Department of Justice policies, Dodd-Frank Act, and other pertinent legislation and regulations; and consider how reputational factors, pressures from institutional investors, shareholders and shareholder service organizations, activists, organized labor and nongovernmental organizations impact corporate behavior and decision-making.

School of Computing & Engineering
School of Computing & Engineering Graduate Courses

Civil Engineering (CIV-ENGR)
CIV-ENGR 349 Environmental Sanitation Practice
Engineering principles involved in generation, handling, collection, transport, processing and disposal of solid wastes, resource recovery and refuse, legislation on solid wastes and groundwater contamination problems. Prerequisite: junior standing.

CIV-ENGR 5500 Problems
Supervised investigation in civil engineering to be presented in the form of a report. Prerequisite: Graduate standing.

CIV-ENGR 5500 Problems
Supervised investigation in civil engineering to be presented in the form of a report. Prerequisite: Graduate standing.

CIV-ENGR 5501 Advanced Topics In Civil Engineering
Current technical developments in civil engineering.

CIV-ENGR 5501 Advanced Topics In Civil Engineering
Current technical developments in civil engineering.

CIV-ENGR 5501BE Advanced Topics In Civil Engineering

CIV-ENGR 5501DM Advanced Topics in Civil Engineering

CIV-ENGR 5501DS Advanced Topics in Civil Engineering

CIV-ENGR 5501G Advanced Topics In Civil Engineering

CIV-ENGR 5501GB Advanced Topics in Civil Engineering

CIV-ENGR 5501HA Advanced Topics In Civil Engineering
Current technical developments in civil engineering.

CIV-ENGR 5501J Advanced Topics In Civil Engineering

CIV-ENGR 5501L Advanced Topics In Civil Engineering

CIV-ENGR 5501L Advanced Topics In Civil Engineering

CIV-ENGR 5501MD Advanced Topics in Civil Engineering
Contemporary Afr Amer Lit

CIV-ENGR 5501PM Advanced Topics in Civil Engineering

CIV-ENGR 5501S Advanced Topics In Civil Engineering
CIV-ENGR 5501SP Advanced Topics In Civil Engineering

CIV-ENGR 5501SW Advanced Topics in Civil Engineering

CIV-ENGR 5515 Engineering Leadership & Ethics
Analysis of leadership, including 360-degree assessment of students' leadership. Discussion of leadership cases and application to engineering careers. Frequent analysis of engineering ethics cases using the NSPE Code. (Cross-listed with CE 415). Prerequisite: graduate status

CIV-ENGR 5523 Advanced Structural Steel Design
Advanced topics in steel design such as connections and serve as a practical application in the design of multi-story steel buildings. Prerequisite: CE 323

CIV-ENGR 5526 Prestressed Concrete
Design and behavior of prestressed concrete structures; material and system or pretensioned and post tensioned systems; prestress losses; flexure, shear, bond, deflections and partial prestress in determinate structures; indeterminate beams-introduction. Prerequisites: CE 422

CIV-ENGR 5527 Advanced Reinforced Concrete Design
Advanced Topics in the design of footings, retaining walls, two way floor slabs, torsion and continuous structures, shear friction, strut and tie design, precast design. (Cross-listed with CE 427). Prerequisite: CIV-ENGR 422

CIV-ENGR 5529 Advanced Design of Structures for Blast and Fire
General overview of blast Design; risk assessment and design criteria; simplified Blast Effects Analysis; ground shock, material response; antiterrorism design considerations; weapons effects and mitigation; internal explosions; progressive collapse analysis; and introduction to Fire Design

CIV-ENGR 5531 Fund of Geomaterial Characterization
Overviews state-of-the-art instrumental techniques for analysis of the physio-chemical properties of soils and civil engineering materials. Analysis techniques will be presented for soils, fresh and hardened concrete, asphalt binders, and metals. (Cross-listed with CE 431). Prerequisites: CE 335, CE 378WI

CIV-ENGR 5532 Foundation Engineering
Design of basic foundation structures, footings, retaining walls, pile foundations, dams. (Cross-listed with CE 432.) Prerequisite: CE 335

CIV-ENGR 5536 Advanced Soil Mechanics
Theoretical soil mechanics as applied to solution of specific engineering problems. Prerequisite: CIV-ENGR 335.

CIV-ENGR 5536 Advanced Soil Mechanics
Theoretical soil mechanics as applied to solution of specific engineering problems. Prerequisite: CIV-ENGR 335.

CIV-ENGR 5542 Hydraulic Structures
A review of the history and hydraulic design procedures for a variety of hydraulic structures including spillways, water measurement structures, canal structures and energy dissipation structures. (Cross-listed with CE 442). Prerequisite: CE 335WI

CIV-ENGR 5544 Unit Processes in Environmental Engineering
Typical chemical and physical relationships are applied to unit processes of water and wastewater. Troubleshooting for operation problems is emphasized. Prerequisite: CE 342.

CIV-ENGR 5545 Environmental Engineering Microbiology
Theory and application of fundamental principles of microbiology, toxicology, ecology, and aquatic biology of the microorganisms of importance to environmental engineers.

CIV-ENGR 5546 Limnology
A survey of the physical, biological, and chemical issues important in surface fresh waters. Includes carbonate chemistry, algal assay and Thermocline analysis. Prerequisites: CHEM 211 and MATH 345

CIV-ENGR 5547 Contracts and Law for Engineers
Law of contracts, including types, construction, interpretation, performance, and termination. Construction and Engineering
service contracts: Proposals, general and financial conditions, specifications and drawings. Corporate and professional and personal liability, insurance and bonds, property, evidence, arbitration and mediation.

**CIV-ENGR 5549** Environmental Compliance, Auditing, & Permitting
Statutes, regulations and permitting for air hazardous wastes and storage tanks. Asbestos, radon, EMF, and emerging areas of regulatory concern. Siting issues. Criminal and civil enforcement. Prerequisites: ME 285 and CE 211.

**CIV-ENGR 5552** Hydraulics of Open Channels
The fundamentals of free surface flow are investigated. This includes the study of the principles of continuity, Momentum and Energy; Specific Energy, Discharge and Force; Steady-Gradually varied and Steady, Rapidly Varied Flow; Hydraulic Structures; and, the derivation of, and general methods for solution of the 1-dimensional, unsteady St. Venant Equations. Prerequisite: CIV-ENGR 351

**CIV-ENGR 5553** Hydraulics and Variability of Rivers
This course investigates the fundamental concepts of alluvial channel behavior including stream channel evolution and change due to natural and man-induced modifications to streams and watersheds. Numerous case studies of river behavior and studied from the perspective of hydraulics, geomorphology and sediment transport. Prerequisite: CIV-ENGR 355

**CIV-ENGR 5554** River Stability and Scour
With over 500,000 bridge over water, a significant number are damaged or destroyed by floods annually. This is a study of the theory of and fundamentals methods and procedures recommended to evaluate and analyze stream stability and scour at bridges. Specific topics include Bridge hydraulics; stream stability bridge piers and abutments; hydraulic modeling of floods; and, countermeasures for protection of bridge infrastructure. Prerequisite: CIV-ENGR 355 or instructor approval.

**CIV-ENGR 5556** Urban Hydrology
This course is an introduction to urban hydrology and urban drainage systems. This course is intended to serve as a follow-on course for undergraduates who have completed CE 355 Water Resources and for Graduate students interested in engineering hydrology in the urban setting. Specifically this course will focus on the engineering techniques and unique issues associated with estimating and designing for rainfall/runoff in an urban metropolitan area. The course will provide a brief review of the fundamental hydrologic processes and hydraulic techniques used in urban hydrology. Also discussed will be reservoir and routing of floods through stream channels, and culverts, and storm sewers. This course is intended to serve as a pre-requisite for additional graduate classes in hydrology dealing with urban drainage, storm water modeling and contaminant transport. Prerequisite: CE 355WI.

**CIV-ENGR 5563** Construction Law
Broad concepts in law as related to business, industry, and the processes of design procurement, construction, and the role of the design professional.

**CIV-ENGR 5565** Project Finance
This course introduces students to the financial concepts faced by engineers. Students will learn how to read and apply financial statements and how to use these same financial concepts in developing pro formas to evaluate and support major capital investments. The effect of time on the value of money, appropriate discount factors, and the internal rate of return are explored in the class. All students will be required to develop a comprehensive financial model to evaluate/justify a real world capital project.

**CIV-ENGR 5566** Green Building and Sustainable Infrastructure
This course will discuss various green building rating systems. Upon completion of this course students will be prepared for LEED Green Associates Exam for New Construction. This course will include many knowledgeable guest speakers to bring a current and real world connection to the topics discussed in class. Students will better understand what sustainability means and how it applies in the context of our build environment and have a good idea of how technology will impact our sustainable future.

**CIV-ENGR 5567** Introduction to Construction Management
Structure of the construction industry; construction drawings and specifications; estimating and bidding; construction contracts, bonds and insurance; planning and scheduling of construction operations; project management; computer techniques. Prerequisites: ME 285 and CE 211

**CIV-ENGR 5568** Construction Planning and Scheduling
Planning and scheduling of construction operations by the critical path method, Network diagramming, scheduling computations, and time-cost trade-offs. Manpower and equipment leveling. Computer and non-computer techniques. Prerequisites: ME 285, CE 211, CE 467

**CIV-ENGR 5569** Construction Methods and Equipment
Introduction to methods used to plan, construct, and manage heavy civil projects. Topics will include development, project
control, equipment productivity, earthmoving fundamentals, formwork design, and other issues in heavy civil projects.
Prerequisites: ME 285, CE 211, CE 467

**CIV-ENGR 5570** Corrosion Engineering
This course will cover the physical interaction of metallic materials with their environment, called corrosion. Corrosion is an electrochemical process and the thermodynamics and kinetics of corrosion processes will be discussed. Prerequisites: Chem 211/211L and CE 378WI.

**CIV-ENGR 5571** Advanced Portland Cement Concrete
This course will cover topics such as cement chemistry, concrete proportioning, aggregates, mineral and chemical admixtures, fresh and hardened properties of concrete, and durability of concrete. Prerequisites: Chem 211/211L and CE 378WI.

**CIV-ENGR 5573** Durability of Civil Engineering Materials
Investigation of pavements and structures including steel, reinforced concrete, and plain concrete for a variety of applications and masonry and asphalt. Explores the identification, cause of, and remediation for issues related to metallic corrosion and concrete deterioration in civil engineering projects. Course content will be delivered through lectures, labs, and case study examples. (Cross-listed with CE 473). Prerequisites: CE 335, CE 378WI

**CIV-ENGR 5575** Seismic Design of Structures
Introduction to basic analysis and design principles for the seismic design of buildings (concrete, steel, wood). General seismic principles, codes and loads, static lateral force procedure, dynamic lateral force procedure, topics in rigidities of buildings, Prerequisites: ME 285 and CE 323 (or CE 422).

**CIV-ENGR 5582** Advanced Traffic Engineering
This course covers the review of traffic flow characteristics, the field survey practices and studies, traffic signal designs, freeway operation, and the introduction to Intelligent Traffic Systems (ITS). Prerequisites: CIV-ENGR 481 and CIV-ENGR 319

**CIV-ENGR 5584** Pavement Materials, Design, Maintenance, and Rehabilitation
Traffic loading and volume, stress and deflection, characterization of pavement materials, design of flexible and rigid pavements, design of overlays, evaluation of pavement performance, maintenance techniques, and rehabilitation options. Prerequisites: CE 378WI.

**CIV-ENGR 5585** Freight Transportation Analysis
CE585 Freight Transportation Analysis (3) This course provides a better understanding of freight transportation and its issues, as well as the techniques of system analysis. Prerequisite: CE481

**CIV-ENGR 5599** Thesis Research
Independent investigation in the field of civil engineering to be presented in the form of a thesis.

**CIV-ENGR 5599** Thesis Research
Independent investigation in the field of civil engineering to be presented in the form of a thesis.

**CIV-ENGR 5601** Doctoral Topics In Civil Engineering
Current technical developments in civil engineering.

**CIV-ENGR 5601** Doctoral Topics In Civil Engineering
Current technical developments in civil engineering.

**CIV-ENGR 5601B** Advanced Topics In Civil Engineering

**CIV-ENGR 5601B** Advanced Topics In Civil Engineering

**CIV-ENGR 5601G** Advanced Topics In Civil Engineering

**CIV-ENGR 5601SD** Advanced Topics In Civil Engineering
CIV-ENGR 5601X Advanced Topics In Civil Engineering

CIV-ENGR 5601X Advanced Topics In Civil Engineering

CIV-ENGR 5602 Directed Reading In Civil Engineering
Faculty supervised readings course. Prerequisite: Graduate standing. Offered: Fall and winter.

CIV-ENGR 5602 Directed Reading In Civil Engineering
Faculty supervised readings course. Prerequisite: Graduate standing. Offered: Fall and winter.

CIV-ENGR 5607 Numerical Methods In Engineering
Classification and numerical solution of engineering problems—ordinary and partial differential equations, algebraic equations. Includes initial, boundary, eigen-# and characteristic-value problems. Prerequisite: MATH 345.

CIV-ENGR 5607 Numerical Methods In Engineering
Classification and numerical solution of engineering problems—ordinary and partial differential equations, algebraic equations. Includes initial, boundary, eigen-# and characteristic-value problems. Prerequisite: MATH 345.

CIV-ENGR 5621 Continuum Mechanics
Introductory course in the mechanics of continuous media. Basic concepts of stress, strain, constitutive relationships; conservation laws are treated using Cartesian tensor notation. Examples from both solid and fluid mechanics investigated. (Same as MEC-ENGR 621) Prerequisites: CIV-ENGR 351, MATH 345, and CIV-ENGR 276

CIV-ENGR 5621 Continuum Mechanics
Introductory course in the mechanics of continuous media. Basic concepts of stress, strain, constitutive relationships; conservation laws are treated using Cartesian tensor notation. Examples from both solid and fluid mechanics investigated. (Same as MEC-ENGR 621) Prerequisites: CIV-ENGR 351, MATH 345, and CIV-ENGR 276

CIV-ENGR 5622 Theory Of Elasticity
Stress and strain at a point. General equations of elasticity. Plane stress, plain strain problems; torsion of prismatic bars. Energy methods. (Same as ME 622) Prerequisite: CIV-ENGR 621

CIV-ENGR 5622 Theory Of Elasticity
Stress and strain at a point. General equations of elasticity. Plane stress, plain strain problems; torsion of prismatic bars. Energy methods. (Same as ME 622) Prerequisite: CIV-ENGR 621

CIV-ENGR 5623 Theory Of Plates And Shells
Bending of plates with various loading and boundary conditions. Deformations, stresses in thin shells. (Same as ME 623) Prerequisite: CIV-ENGR 621

CIV-ENGR 5623 Theory Of Plates And Shells
Bending of plates with various loading and boundary conditions. Deformations, stresses in thin shells. (Same as ME 623) Prerequisite: CIV-ENGR 621

CIV-ENGR 5624 Theory Of Elastic Stability
Buckling of columns, beams, rings, curved bars, thin plates, shells. (Same as MEC-ENGR 624) Prerequisite: CIV-ENGR 621

CIV-ENGR 5624 Theory Of Elastic Stability
Buckling of columns, beams, rings, curved bars, thin plates, shells. (Same as MEC-ENGR 624) Prerequisite: CIV-ENGR 621

CIV-ENGR 5625 Advanced Prestressed Concrete
Design and behavior of prestressed concrete structures; material and system of pretensioned and post tensioned systems; prestress losses; flexure, shear, bond, deflections and partial prestress in determinate structures; indeterminate beams-introduction. Prerequisites: CE 422

CIV-ENGR 5629 Adv. Design of Structures for Blast and Fire
General overview of Blast Design; risk assessment and design criteria; simplified Blast Effects Analysis; ground shock, material response; antiterrorism design considerations; weapons effects and mitigation; internal explosions; progressive collapse analysis; and introduction to Fire Design.
CIV-ENGR 5645 Water Quality Modeling
Derivation and application of models for describing oxygen budget, nutrient exchange, and biological productivity in streams, lakes and estuaries. Prerequisite: CIV-ENGR 342.

CIV-ENGR 5645 Water Quality Modeling
Derivation and application of models for describing oxygen budget, nutrient exchange, and biological productivity in streams, lakes and estuaries. Prerequisite: CIV-ENGR 342.

CIV-ENGR 5646 Physiochemical Treatment Processes
Fundamental principles, analysis and modeling of physical and chemical processes for water and wastewater treatment. Prerequisite: CIV-ENGR 342.

CIV-ENGR 5646 Physiochemical Treatment Processes
Fundamental principles, analysis and modeling of physical and chemical processes for water and wastewater treatment. Prerequisite: CIV-ENGR 342.

CIV-ENGR 5647 Biochemical Treatment Processes
Biochemical principles, kinetic models and energy considerations in the design of biological wastewater treatment processes. Prerequisite: CIV-ENGR 342.

CIV-ENGR 5647 Biochemical Treatment Processes
Biochemical principles, kinetic models and energy considerations in the design of biological wastewater treatment processes. Prerequisite: CIV-ENGR 342.

CIV-ENGR 5648 Environmental Engineering Practicum
Numerical water quality modeling of actual site data for wasteload allocation.

CIV-ENGR 5649 Design Of Water And Wastewater Treatment Facilities
Development of design criteria and their application to the design of water and wastewater treatment facilities. Prerequisite: CIV-ENGR 342.

CIV-ENGR 5649 Design Of Water And Wastewater Treatment Facilities
Development of design criteria and their application to the design of water and wastewater treatment facilities. Prerequisite: CIV-ENGR 342.

CIV-ENGR 5651 Fundamentals Of Fluid Mechanics
Fundamentals of fluid motion, lecture and laboratory. Instrumentation, technique and analysis for experimental studies in fluid mechanics.

CIV-ENGR 5651 Fundamentals Of Fluid Mechanics
Fundamentals of fluid motion, lecture and laboratory. Instrumentation, technique and analysis for experimental studies in fluid mechanics.

CIV-ENGR 5655 Sediment Transport
The study of sediment transport in rivers: the relationship between sediment transport and the fundamentals of fluvial geomorphology. Computation of sediment transport and sediment transport modeling. Prerequisite: CE 452 or CE 5552

CIV-ENGR 5655 Sediment Transport
The study of sediment transport in rivers: the relationship between sediment transport and the fundamentals of fluvial geomorphology. Computation of sediment transport and sediment transport modeling. Prerequisite: CE 452 or CE 5552

CIV-ENGR 5656 Advanced Hydraulic Engineering
Rapidly varied flow and design of transition structures. Hydraulic design of spillways, reservoirs and related structures.

CIV-ENGR 5656 Advanced Hydraulic Engineering
Rapidly varied flow and design of transition structures. Hydraulic design of spillways, reservoirs and related structures.

CIV-ENGR 5675 Advanced Seismic Design of Structures
Introduction to basic analysis and design principles for the seismic design of buildings (concrete, steel, wood). General seismic principles, codes and loads, static lateral force procedure, dynamic lateral force procedure, topics in rigidities of buildings. Prerequisites: ME 285 and CE 323 (or CE 422)
CIV-ENGR 5676 Finite Element Methods
The concepts and fundamentals of the finite element method with applications to problems in solid and fluid mechanics. Prerequisite: MEC-ENGR 486 or CIV-ENGR 421.

CIV-ENGR 5676 Finite Element Methods
The concepts and fundamentals of the finite element method with applications to problems in solid and fluid mechanics. Prerequisite: MEC-ENGR 486 or CIV-ENGR 421.

CIV-ENGR 5679 Dynamics Of Structures
Study of the dynamic behavior of structures. Analysis of equivalent lumped parameter systems for the design of structures in a dynamic environment. (Same as MEC-ENGR 679) Prerequisites: MEC-ENGR 484 and CIV-ENGR 276, or CIV-ENGR 421, MATH 345, and MEC-ENGR 285

CIV-ENGR 5679 Dynamics Of Structures
Study of the dynamic behavior of structures. Analysis of equivalent lumped parameter systems for the design of structures in a dynamic environment. (Same as MEC-ENGR 679) Prerequisites: MEC-ENGR 484 and CIV-ENGR 276, or CIV-ENGR 421, MATH 345, and MEC-ENGR 285

CIV-ENGR 5681 Traffic Flow Theory
CE681 (3) Traffic Flow Theory This course covers the review of macroscopic and microscopic traffic flow characteristics, the traffic flow models, and the traffic simulation applications. Prerequisite: CE481 and CE319

CIV-ENGR 5682 Transportation Network Modeling
This course is about modeling, solving, and understanding network flow problems, especially in the transportation discipline. This course covers equilibrium traffic assignment, network design, fleet assignment, fleet routing, and crew scheduling. Prerequisites: CE 481 and CE 319

CIV-ENGR 5699 Research And Dissertation
Doctoral dissertation research.

CIV-ENGR 5699 Research And Dissertation
Doctoral dissertation research.

Computer Science (COMP-SCI)
COMP-SCI 515 Design And Analysis Of Algorithms
See course description Computer Science 415.

COMP-SCI 5510 Information Theory
Representation, transmission and transformation of information, information compression and protection, generation, storage, processing and transmission of information. Prerequisite: BS in Computer Science, Engineering, or Mathematics.

COMP-SCI 5511 Advanced Telecommunications Networks
Efficient source coding and channel coding techniques, principles of switching, digital transmission over microwave, copper and optical media, T-carrier and SONET systems, traffic consideration in telecommunications networks, network synchronization, control and management, ATM concepts. Prerequisite(s): COMP-SCI 394R and COMP-SCI 411.

COMP-SCI 5513 Digital Cellular Communications
Principles of microwave communications, performance metrics, mobile communications and cellular topology, co-channel and adjacent channel interference, fading and shadowing, various types of diversity, TDMA, FDMA and CDMA and other techniques for channel assignment, cellular network architectures, design considerations, PCN concepts. Prerequisite COMP-SCI 411.

COMP-SCI 5513 Digital Cellular Communications
Principles of microwave communications, performance metrics, mobile communications and cellular topology, co-channel and adjacent channel interference, fading and shadowing, various types of diversity, TDMA, FDMA and CDMA and other techniques for channel assignment, cellular network architectures, design considerations, PCN concepts. Prerequisite COMP-SCI 411.

COMP-SCI 5514 Optical Fiber Communications
Fiber optic cable and its characteristics, optical sources and transmitters, optical detectors and receivers, optical components such as couplers and connectors, WDM and OFDM techniques, modulation and transmission of information over optical fibers, design of optical networks, single and multihop fiber LANs, optical carrier systems. Prerequisite: COMP-SCI 411.
COMP-SCI 5514 Optical Fiber Communications
Fiber optic cable and its characteristics, optical sources and transmitters, optical detectors and receivers, optical components such as couplers and connectors, WDM and OFDM techniques, modulation and transmission of information over optical fibers, design of optical networks, single and multihop fiber LANs, optical carrier systems. Prerequisite: COMP-SCI 411.

COMP-SCI 5514A Optical Networking
Components of optical networks such as OADM, OXC, optical switches, DWDM, and their functions and interactions. Design, analysis and routing over all-optical networks to include waveband, wavelength and lightpath routing. Prerequisite: COMP-SCI 411.

COMP-SCI 5515R Integrated Services Digital Networks
Fundamental concepts of integrated services digital networks (ISDN), evolution of ISDN, CCITT recommended ISDN standards, basic and primary rates, user access protocols, network signaling such as Signaling System 7, switching and transmission in ISDN, broad ISDN, legal and regulatory issues, future trends. Prerequisite: CS 411 and CS 421 or permission of instructor.

COMP-SCI 5517 Digital Switching: Techniques And Architectures
Integration of transmission and switching, single and multistage switching principles, space and time di vision switching, conventional switch architectures such as 4ESS, integration of circuit and packet switching, ATM switching and design considerations, ATM switch architectures, evaluation and comparison, future trends. Prerequisite(s): COMP-SCI 394R and COMP-SCI 411.

COMP-SCI 5520 Network Architecture I
Principles, protocols, and architectures of data networks, internetworking, routing, layering, and addressing, with specific investigation of the Internet Protocol (IP), Mobile IP, Multiprotocol Label Switching (MPLS), IP over Asynchronous Transfer Mode (ATM) networks, and virtual private networks. Prerequisite: COMP-SCI 420 or COMP-SCI 421A, COMP-SCI 431.

COMP-SCI 5521 Network Architecture II
Principles, protocols and architectural issues of computer networks for transport layer and above, with specific emphasis on TCP/IP for best-effort services as well as for emerging multi-media services. Prerequisite: COMP-SCI 5520.

COMP-SCI 5522 Computer Network Design And Analysis
Topological design, capacity and flow assignment problem-modeling and algorithms, and their analysis, issues in network control. Prerequisite(s): CS 394R; CS 421A, and CS 303.

COMP-SCI 5522 Computer Network Design And Analysis
Topological design, capacity and flow assignment problem-modeling and algorithms, and their analysis, issues in network control. Prerequisite(s): CS 394R; CS 421A, and CS 303.
COMP-SCI 5522 Computer Network Design And Analysis
Topological design, capacity and flow assignment problem-modeling and algorithms, and their analysis, issues in network control. Prerequisite(s): CS 394R; CS 421A, and CS 303.

COMP-SCI 5524 Protocol Design
Protocols as formal algorithms, architectural definition, protocol specification languages and models and their translation to implementation languages, overview of verification methods, symbolic execution. Prerequisite: CS 421.

COMP-SCI 5524 Protocol Design
Protocols as formal algorithms, architectural definition, protocol specification languages and models and their translation to implementation languages, overview of verification methods, symbolic execution. Prerequisite: CS 421.

COMP-SCI 5526 Network Routing
Algorithms, protocols and analysis for network routing. Routing in different networks such as circuit-switched networks, Internet, broadband networks, and transmission networks are covered. Prerequisites: COMP-SCI 5520 and COMP-SCI 5522.

COMP-SCI 5526 Network Routing
Algorithms, protocols and analysis for network routing. Routing in different networks such as circuit-switched networks, Internet, broadband networks, and transmission networks are covered. Prerequisites: COMP-SCI 5520 and COMP-SCI 5522.

COMP-SCI 5526 Network Routing
Algorithms, protocols and analysis for network routing. Routing in different networks such as circuit-switched networks, Internet, broadband networks, and transmission networks are covered. Prerequisites: COMP-SCI 5520 and COMP-SCI 5522.

COMP-SCI 5528 Local Area Networks: Analysis And Design
Definition of local area networks (LAN), LAN architecture and protocols, topology, transmission media, channel access protocols, modeling, simulation and performance evaluation of LANs, considerations in design and implementation, examples. Prerequisite: COMP-SCI 421A and COMP-SCI 494R.

COMP-SCI 5528 Local Area Networks: Analysis And Design
Definition of local area networks (LAN), LAN architecture and protocols, topology, transmission media, channel access protocols, modeling, simulation and performance evaluation of LANs, considerations in design and implementation, examples. Prerequisite: COMP-SCI 421A and COMP-SCI 494R.

COMP-SCI 5528 Local Area Networks: Analysis And Design
Definition of local area networks (LAN), LAN architecture and protocols, topology, transmission media, channel access protocols, modeling, simulation and performance evaluation of LANs, considerations in design and implementation, examples. Prerequisite: COMP-SCI 421A and COMP-SCI 494R.

COMP-SCI 5531 Advanced Operating Systems
Components of an operating system, scheduling/routing mechanisms, process control blocks, design and test various operating system components. Prerequisite: COMP-SCI 431.

COMP-SCI 5531 Advanced Operating Systems
Components of an operating system, scheduling/routing mechanisms, process control blocks, design and test various operating system components. Prerequisite: COMP-SCI 431.

COMP-SCI 5532 Discrete Event Simulation
Review of statistical distributions, generation of pseudorandom variates and stochastic processes, basic queueing systems such as M/M/m and Jackson Networks, simulation project. Prerequisite: CS 594.

COMP-SCI 5532 Discrete Event Simulation
Review of statistical distributions, generation of pseudorandom variates and stochastic processes, basic queueing systems such as M/M/m and Jackson Networks, simulation project. Prerequisite: CS 594.

COMP-SCI 5541 Advanced Programming Languages
Concurrency, non-determinism from the standpoint of programming languages, and applicative (functional) languages. Prerequisite: CS 441.

COMP-SCI 5544 Programming Language Semantics
Formal semantics of programming languages, lambda calculus, operational, axiomatic and denotational semantics, proofs of
program correctness. Prerequisite: CS 441.

**COMP-SCI 5551 Advanced Software Engineering**
Current concepts in software architecture and design, comparative analysis for design, object-oriented software design, software quality criteria for evaluation of software design. Introduction to metrics, project management and managerial ethics. Prerequisite: COMP-SCI 451.

**COMP-SCI 5551 Advanced Software Engineering**
Current concepts in software architecture and design, comparative analysis for design, object-oriented software design, software quality criteria for evaluation of software design. Introduction to metrics, project management and managerial ethics. Prerequisite: COMP-SCI 451.

**COMP-SCI 5552 Advanced Data Structures**
Formal modeling including specification and deviation of abstract data types, completeness issues in the design of data types and data structures, implementation of data structures from a formal data type specification, verification of abstract to concrete data mapping. Prerequisite(s): COMP-SCI 291 and COMP-SCI 303.

**COMP-SCI 5552 Advanced Data Structures**
Formal modeling including specification and deviation of abstract data types, completeness issues in the design of data types and data structures, implementation of data structures from a formal data type specification, verification of abstract to concrete data mapping. Prerequisite(s): COMP-SCI 291 and COMP-SCI 303.

**COMP-SCI 5552 Advanced Data Structures**
Formal modeling including specification and deviation of abstract data types, completeness issues in the design of data types and data structures, implementation of data structures from a formal data type specification, verification of abstract to concrete data mapping. Prerequisite(s): COMP-SCI 291 and COMP-SCI 303.

**COMP-SCI 5552A Formal Software Specification**
Formal modeling including specification and deviation of abstract data types, completeness issues in the design of data types and data structures, implementation of data structures from a formal data type specification, verification of abstract to concrete data mapping. Prerequisite(s): CS 291 and CS 303.

**COMP-SCI 5552A Formal Software Specification**
Formal modeling including specification and deviation of abstract data types, completeness issues in the design of data types and data structures, implementation of data structures from a formal data type specification, verification of abstract to concrete data mapping. Prerequisite(s): CS 291 and CS 303.

**COMP-SCI 5552A Formal Software Specification**
Formal modeling including specification and deviation of abstract data types, completeness issues in the design of data types and data structures, implementation of data structures from a formal data type specification, verification of abstract to concrete data mapping. Prerequisite(s): CS 291 and CS 303.

**COMP-SCI 5554 Software Tools And Programming Environments**
Taxonomy of software tools and environments, generic software tool architecture, interface techniques for users, intra-system and stand-alone systems, integration of heterogeneous systems components. Prerequisite: COMP-SCI 451.

**COMP-SCI 5554 Software Tools And Programming Environments**
Taxonomy of software tools and environments, generic software tool architecture, interface techniques for users, intra-system and stand-alone systems, integration of heterogeneous systems components. Prerequisite: COMP-SCI 451.

**COMP-SCI 5556 Human Factors In Computer Systems**
Design of "user friendly" man-machine interface, survey of recent psychological studies in man-machine interaction, user interface design, instrumentation and testing, analytic models of man-machine interaction. Prerequisite: CS 451.

**COMP-SCI 5556 Human Factors In Computer Systems**
Design of "user friendly" man-machine interface, survey of recent psychological studies in man-machine interaction, user interface design, instrumentation and testing, analytic models of man-machine interaction. Prerequisite: CS 451.

**COMP-SCI 5558 Software Engineering Economics**
Software cost, schedule, and resource estimation, estimation models, Boehm's COCOMO model, DeMarco's "bluebook" estimation techniques. Prerequisite: CS 451.
COMP-SCI 5560 Knowledge Discovery And Management
This course teaches students fundamental theory and practice in the field of knowledge discovery and management and also provides them with hands-on experience through application development. Prerequisites: COMP-SCI 5551, and either COMP-SCI 461 or COMP-SCI 464. Offered: Every Winter

COMP-SCI 5560 Knowledge Discovery And Management
This course teaches students fundamental theory and practice in the field of knowledge discovery and management and also provides them with hands-on experience through application development. Prerequisites: COMP-SCI 5551, and either COMP-SCI 461 or COMP-SCI 464. Offered: Every Winter

COMP-SCI 5561 Advanced Artificial Intelligence
AI systems and their languages, implementations and applications, case studies of various expert systems, current research topics in AI, logic programming using PROLOG. Prerequisite: CS 461.

COMP-SCI 5561 Advanced Artificial Intelligence
AI systems and their languages, implementations and applications, case studies of various expert systems, current research topics in AI, logic programming using PROLOG. Prerequisite: CS 461.

COMP-SCI 5563 Natural Language Processing
Natural Language Processing is an in-depth course intended for graduate students in Computer Science, with particular importance to those students interested in A.I. The course will concentrate on the algorithms and structures required for the systematic processing of natural languages. The problems involved in the processing of a context-free language, a survey of existing processors. A substantial project will be undertaken to create a Natural Language Processor. Prerequisite: CS 461 or consent of instructor.

COMP-SCI 5564 Inference Techniques And Knowledge Representation
Inference Techniques is an in-depth course of logic and automatic theorem proving, intended for Computer Science graduate students, with particular importance to those students interested in Artificial Intelligence. The main areas of study will be concerned with the principals and techniques used for automatic theorem proving. An overview of the representation of knowledge and logic, a detailed appreciation of theorem proving methods, and implementation techniques will be provided in the course. The course will provide background for further study in varying fields of A.I. Prerequisite: CS 461 or consent of instructor.

COMP-SCI 5564 Inference Techniques And Knowledge Representation
Inference Techniques is an in-depth course of logic and automatic theorem proving, intended for Computer Science graduate students, with particular importance to those students interested in Artificial Intelligence. The main areas of study will be concerned with the principals and techniques used for automatic theorem proving. An overview of the representation of knowledge and logic, a detailed appreciation of theorem proving methods, and implementation techniques will be provided in the course. The course will provide background for further study in varying fields of A.I. Prerequisite: CS 461 or consent of instructor.

COMP-SCI 5566 Introduction To Bioinformatics
This course introduces students to the field of Bioinformatics with a focus on understanding the motivation and computer science behind existing Bioinformatic resources, as well as learning the skills to design and implement new ideas. Offered: Every Fall
Prerequisites: COMP-SCI 303 and a course/background in Biology (Genomics or Meta Models preferred.)

COMP-SCI 5566 Introduction To Bioinformatics
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Prerequisites: COMP-SCI 303 and a course/background in Biology (Genomics or Meta Models preferred.)

COMP-SCI 5567 Machine Learning In Bioinformatics
This course introduces students to the field of Machine Learning algorithms that are used in Bioinformatics, illustrated by several examples of applications to various problems. Offered: Every Winter
Prerequisites: COMP-SCI 303 and a course/background in Biology (Genomics or Meta Models preferred.)
COMP-SCI 5567 Machine Learning In Bioinformatics
This course introduces students to the field of Machine Learning algorithms that are used in Bioinformatics, illustrated by several examples of applications to various problems. Offered: Every Winter Prerequisites: COMP-SCI 303 and a course/background in Biology (Genomics or eta Models preferred.)

COMP-SCI 5567 Machine Learning In Bioinformatics
This course introduces students to the field of Machine Learning algorithms that are used in Bioinformatics, illustrated by several examples of applications to various problems. Offered: Every Winter Prerequisites: COMP-SCI 303 and a course/background in Biology (Genomics or eta Models preferred.)

COMP-SCI 5570 Architecture Of Database Management Systems
Covers in detail, architecture of centralized database systems, database processing, management of concurrent transactions, query processing, query optimization, data models, database recovery, data warehousing, workflow, World Wide Web and Database performance, and reviews the architecture of some commercial centralized database systems. Prerequisites: COMP-SCI 470 and COMP-SCI 431, or consent of instructor.

COMP-SCI 5570 Architecture Of Database Management Systems
Covers in detail, architecture of centralized database systems, database processing, management of concurrent transactions, query processing, query optimization, data models, database recovery, data warehousing, workflow, World Wide Web and Database performance, and reviews the architecture of some commercial centralized database systems. Prerequisites: COMP-SCI 470 and COMP-SCI 431, or consent of instructor.

COMP-SCI 5572 Mobile Computing
This course covers in detail the architecture of mobile and wireless network. It discusses and develops reveland concepts and algorithms for building mobile database systems (MDS), which is necessary for managing information on the air and E-commerce. This course is offered once a year. Prerequisite: COMP-SCI 5570 Offered: Every Fall

COMP-SCI 5572 Mobile Computing
This course covers in detail the architecture of mobile and wireless network. It discusses and develops reveland concepts and algorithms for building mobile database systems (MDS), which is necessary for managing information on the air and E-commerce. This course is offered once a year. Prerequisite: COMP-SCI 5570 Offered: Every Fall

COMP-SCI 5573 Information Security and Assurance
This course deals with information security and assurance and covers the concepts necessary to secure the cyberspace. It introduces security models, assurance policies, security policies and procedures, and technology. It enables students to understand the need for information assurance, identify security vulnerabilities, and devise security solutions that meaningfully raise the level of confidence in computer systems. It teaches students how to design secured database and computer systems. Prerequisites: CS 470

COMP-SCI 5574 Large Scale Semistructured Date Management
This course will cover topics related to managing large scale semistructured data modeled using the Extensible Markup Language XML and the Resource Description Framework (RDF). This will include storing XML (e.g. natively, using a relational database), indexing XML (e.g. numbering schemes, structural indexes, sequencing paradigms), XML query processing algorithms (e.g. join-based, subsequence-based), RDF DATA STORAGE (e.g. triple stores, graph stores), RDF indexing and SPARQL query processing algorithms. The course will also cover emerging many core processor architectures (e.g. Intel Single-chip Cloud Computer) and the opportunities they provide for building next-generation semistructured data management solutions. Extensive reading of research papers and in-class presentations will be a core part of this class. Grades will be based on in-class presentations of research papers, exams, and a research project (to be done in groups). Prerequisites: CS 470 or equivalent course.

COMP-SCI 5575 Advanced Computer Graphics
Review of transformations, 3D viewing, curve fitting in 3D, generation of surfaces, hidden surface elimination, scan-line coherence, rigid solid representation, shading, color theory. Prerequisite: CS 475.

COMP-SCI 5575 Advanced Computer Graphics
Review of transformations, 3D viewing, curve fitting in 3D, generation of surfaces, hidden surface elimination, scan-line coherence, rigid solid representation, shading, color theory. Prerequisite: CS 475.

COMP-SCI 5581 Parallel Computer Architecture I
Parallelism in computer architecture, pipelined processors, array processors and multi-processor systems, algorithms for SISD, SIMD, MISP and MIMD organizations, vectorization, pipelining algorithms. Prerequisite: CS 481.
COMP-SCI 5581 Parallel Computer Architecture I
Parallelism in computer architecture, pipelined processors, array processors and multi-processor systems, algorithms for SISD, SIMD, MISD and MIMD organizations, vectorization, pipelining algorithms. Prerequisite: CS 481.

COMP-SCI 5590 Special Topics
Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

COMP-SCI 5590 Special Topics
Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

COMP-SCI 5590A Special Topics

COMP-SCI 5590A Special Topics

COMP-SCI 5590AB Special Topics

COMP-SCI 5590AB Special Topics

COMP-SCI 5590AC Special Topics

COMP-SCI 5590AC Special Topics

COMP-SCI 5590AW Special Topics

COMP-SCI 5590BI Special Topics

COMP-SCI 5590BI Special Topics

COMP-SCI 5590C Special Topics In Computer Science

COMP-SCI 5590C Special Topics In Computer Science

COMP-SCI 5590CA Special Topics

COMP-SCI 5590CA Special Topics

COMP-SCI 5590CC Special Topics In Computer Science

COMP-SCI 5590CD Special Topics

COMP-SCI 5590CD Special Topics

COMP-SCI 5590CI Special Topics
COMP-SCI 5590CN Special Topics
COMP-SCI 5590DA Special Topics
COMP-SCI 5590DA Special Topics
COMP-SCI 5590DM Special Topics
COMP-SCI 5590DM Special Topics
COMP-SCI 5590DS Special Topics
COMP-SCI 5590E Special Topics
COMP-SCI 5590E Special Topics
COMP-SCI 5590F Special Topics
COMP-SCI 5590F Special Topics
COMP-SCI 5590GP Special Topics
COMP-SCI 5590HM Special Topics
COMP-SCI 5590I Special Topics
COMP-SCI 5590I Special Topics
COMP-SCI 5590IS Special Topics
COMP-SCI 5590KB Special Topics
COMP-SCI 5590KB Special Topics
COMP-SCI 5590LD Special Topics
COMP-SCI 5590M Special Topics
COMP-SCI 5590M Special Topics
COMP-SCI 5590MB Special Topics

COMP-SCI 5590MB Special Topics

COMP-SCI 5590NA Special Topics

COMP-SCI 5590NM Special Topics

COMP-SCI 5590NM Special Topics

COMP-SCI 5590NN Special Topics
Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

COMP-SCI 5590O Special Topics

COMP-SCI 5590O Special Topics

COMP-SCI 5590OP Special Topics

COMP-SCI 5590OP Special Topics

COMP-SCI 5590OS Special Topics

COMP-SCI 5590OS Special Topics

COMP-SCI 5590PC Special Topics In Computer Science

COMP-SCI 5590PC Special Topics In Computer Science

COMP-SCI 5590PG Special Topics In Computer Science

COMP-SCI 5590PR Special Topics

COMP-SCI 5590PR Special Topics

COMP-SCI 5590RS Special Topics In Computer Science

COMP-SCI 5590SA Special Topics In Computer Science

COMP-SCI 5590SG Special Topics In Computer Science
COMP-SCI 5590SI Special Topics

COMP-SCI 5590SK Special Topics Computer Science

COMP-SCI 5590SS Special Topics in Computer Science

COMP-SCI 5590T Special Topics

COMP-SCI 5590T Special Topics

COMP-SCI 5590V Special Topics

COMP-SCI 5590V Special Topics

COMP-SCI 5590VC Special Topics

COMP-SCI 5590W Special Topics

COMP-SCI 5590W Special Topics

COMP-SCI 5590WW Special Topics

COMP-SCI 5590WW Special Topics

COMP-SCI 5590WX Special Topics

COMP-SCI 5590X Special Topics
Prerequisite: CS411. Offered: ECE374k

COMP-SCI 5590XX Special Topics

COMP-SCI 5590XX Special Topics

COMP-SCI 5590YL Special Topics

COMP-SCI 5590Z Special Topics

COMP-SCI 5590Z Special Topics

COMP-SCI 5591 Concurrency Models
Concurrency control constructs, P/V primitives, cobegin/coend, monitors, message transmission, rendezvous systems, underlying mathematics of concurrent systems, Petri Nets, liveness (deadlock), reachability, boundedness, invariants, system modeling. Prerequisite: CS 431 and 493.
COMP-SCI 5591 Concurrency Models
Concurrency control constructs, P/V primitives, cobegin/coend, monitors, message transmission, rendezvous systems, underlying mathematics of concurrent systems, Petri Nets, liveness (deadlock), reachability, boundedness, invariants, system modeling. Prerequisite: CS 431 and 493.

COMP-SCI 5592 Design And Analysis Of Algorithms
Combinatorial analysis, searching and sorting, shortest path algorithms, spanning trees, search and traversal techniques, backtracking, branch and bound, heuristics, algebraic simplification and transformation. Prerequisite: COMP-SCI 303.

COMP-SCI 5592 Design And Analysis Of Algorithms
Combinatorial analysis, searching and sorting, shortest path algorithms, spanning trees, search and traversal techniques, backtracking, branch and bound, heuristics, algebraic simplification and transformation. Prerequisite: COMP-SCI 303.

COMP-SCI 5592 Design And Analysis Of Algorithms
Combinatorial analysis, searching and sorting, shortest path algorithms, spanning trees, search and traversal techniques, backtracking, branch and bound, heuristics, algebraic simplification and transformation. Prerequisite: COMP-SCI 303.

COMP-SCI 5593 Automata Theory
Formal models for computation and their applications, structure and algebraic properties of sequential machines, other automata. Prerequisite: CS 493.

COMP-SCI 5594 Introduction To Queueing Theory
Review of statistics and probability, stochastic processes, Markov Processes, the basic Poisson process, equilibrium conditions, M/M/1 system with variations local and global balance in networks of queues, open and closed networks. Prerequisite: COMP-SCI 494R.

COMP-SCI 5595 Mathematical Foundations Of Computer Science
Study of the theory, and algorithmic techniques, of the fields of graph theory, combinatorics and number theory, as they relate to their application in the field of computer science. Prerequisite: COMP-SCI 303 and COMP-SCI 494R, or Consent of Instructor.

COMP-SCI 5595 Mathematical Foundations Of Computer Science
Study of the theory, and algorithmic techniques, of the fields of graph theory, combinatorics and number theory, as they relate to their application in the field of computer science. Prerequisite: COMP-SCI 303 and COMP-SCI 494R, or Consent of Instructor.

COMP-SCI 5595 Mathematical Foundations Of Computer Science
Study of the theory, and algorithmic techniques, of the fields of graph theory, combinatorics and number theory, as they relate to their application in the field of computer science. Prerequisite: COMP-SCI 303 and COMP-SCI 494R, or Consent of Instructor.

COMP-SCI 5596A Computer Security I: Cryptology
Study of theory, and algorithmic techniques, of the fields of number theory and cryptology, as they are applied in the general area of computer and network security. Prerequisites: COMP-SCI 291.

COMP-SCI 5596B Computer Security II: Applications
Application of the algorithmic techniques learned in CS 596A to provide suitable security countermeasures to the variety of security threats across the spectrum of computing. Prerequisite: COMP-SCI 596A.

COMP-SCI 5596B Computer Security II: Applications
Application of the algorithmic techniques learned in CS 596A to provide suitable security countermeasures to the variety of security threats across the spectrum of computing. Prerequisite: COMP-SCI 596A.

COMP-SCI 5597 Directed Readings
Readings in an area selected by the graduate student in consultation with a faculty member. Arrangements must be made prior to registration.

COMP-SCI 5597 Directed Readings
Readings in an area selected by the graduate student in consultation with a faculty member. Arrangements must be made prior to registration.

COMP-SCI 5598 Research Seminar
Graduate research based on intensive readings from the current research literature under the direction of a faculty member. Arrangements must be made prior to registration.
**COMP-SCI 5598** Research Seminar
Graduate research based on intensive readings from the current research literature under the direction of a faculty member. Arrangements must be made prior to registration.

**COMP-SCI 5599** Research And Thesis
A project investigation leading to a thesis, or written report under the direction of a faculty member. A prospectus must be accepted prior to registration.

**COMP-SCI 5599** Research And Thesis
A project investigation leading to a thesis, or written report under the direction of a faculty member. A prospectus must be accepted prior to registration.

**COMP-SCI 562** Telecommunication Networks

**COMP-SCI 5622** Advanced Network Analysis
Design and analysis of data networks, comparative analysis of capacity and flow strategies, time-delay/cost trade offs, concentration and buffering in store and forward networks, random access techniques, pure, slotted and reservation type Aloha schemes, carrier sense multiple access. Prerequisite: CS 522.

**COMP-SCI 565** Queueing Theory
Queueing systems, probability distributions, Poisson processes, M/M/1 model, multiserver queues, steady-state solutions, priorities and queue discipline, M/G/1 model, simulation and approximations. Prerequisite: Math 220 and 325

**COMP-SCI 5650** Design Of Concurrent Software
Software architecture of multitasking and distributed software, design techniques, implementation techniques. Prerequisite: CS 5581 and 5591.

**COMP-SCI 5651** Distributed Computing For Software Systems
Formal descriptions of problems encountered in distributed computing for architecture. Parameters to formal requirements, operating system support, communications support, process synchronization, and system verification, distinctions between real time and concurrent time. The nature of life cycles, project organization and use of automated tools. Prerequisites: CS551, CS531 OR CS570.

**COMP-SCI 5651** Distributed Computing For Software Systems
Formal descriptions of problems encountered in distributed computing for architecture. Parameters to formal requirements, operating system support, communications support, process synchronization, and system verification, distinctions between real time and concurrent time. The nature of life cycles, project organization and use of automated tools. Prerequisites: CS551, CS531 OR CS570.

**COMP-SCI 5658** Object Oriented Testing Methods
Formal methods for the testing and verification of distributed object systems with emphasis on testing and verification of domain specifications and testing and verification with reusable frameworks. Prerequisite: CS551.

**COMP-SCI 5670** Architecture Of Distributed Database Systems
Detailed study of distributed database systems architecture, in-depth study of distributed transaction management, distributed
concurrency control and recovery algorithms, database distribution, distributed query optimization and analysis of database system design, and intelligent network databases. Prerequisites: COMP-SCI 5570 or consent of instructor.

**COMP-SCI 5670** Architecture Of Distributed Database Systems
Detailed study of distributed database systems architecture, in-depth study of distributed transaction management, distributed concurrency control and recovery algorithms, database distribution, distributed query optimization and analysis of database system design, and intelligent network databases. Prerequisites: COMP-SCI 5570 or consent of instructor.

**COMP-SCI 5690** Advanced Special Topics
A lecture course presenting advanced research level topics. Prerequisite: Ph.D candidacy or consent of instructor. On demand. This course is intended to allow faculty and visiting scholars to offer special courses in selected research areas.

**COMP-SCI 5690A** Advanced Special Topics

**COMP-SCI 5690AV** Advanced Special Topics
A lecture course presenting advanced research level topics. Prerequisite: Ph.D candidacy or consent of instructor. On demand. This course is intended to allow faculty and visiting scholars to offer special courses in selected research areas.

**COMP-SCI 5690CN** Advanced Special Topics
A lecture course presenting advanced research level topics. Prerequisite: Ph.D candidacy or consent of instructor. On demand. This course is intended to allow faculty and visiting scholars to offer special courses in selected research areas.

**COMP-SCI 5690J** Advanced Special Topics

**COMP-SCI 5690M** Advanced Special Topics

**COMP-SCI 5690ND** Advanced Special Topics

**COMP-SCI 5690RN** Advanced Special Topics
A lecture course presenting advanced research level topics. Prerequisite: Ph.D candidacy or consent of instructor. On demand. This course is intended to allow faculty and visiting scholars to offer special courses in selected research areas.

**COMP-SCI 5690SA** Advanced Special Topics
A lecture course presenting advanced research level topics. Prerequisite: Ph.D candidacy or consent of instructor. On demand. This course is intended to allow faculty and visiting scholars to offer special courses in selected research areas.

**COMP-SCI 5690T** Advanced Special Topics
A lecture course presenting advanced research level topics. Prerequisite: Ph.D candidacy or consent of instructor. On demand. This course is intended to allow faculty and visiting scholars to offer special courses in selected research areas.

**COMP-SCI 5694** Advanced Queueing Theory
Non-Markovian systems such as M/G/1, G/M/1 and G/G/1, solutions of networks of non-Markovian nodes, queueing network approximate solution techniques. Prerequisite: COMP-SCI 5594.
COMP-SCI 5694 Advanced Queueing Theory
Non-Markovian systems such as M/G/1, G/M/1 and G/G/1, solutions of networks of non-Markovian nodes, queueing network approximate solution techniques. Prerequisite: COMP-SCI 5594.

COMP-SCI 5697 Directed Readings
Readings in an area selected by the doctoral student in consultation with a doctoral faculty member. Arrangements must be made prior to registration.

COMP-SCI 5698 Advanced Research Seminar
Advanced research by a group of doctoral students based on intensive readings from the current research literature under the direction of one or more doctoral faculty. Original research results of each student are exchanged by presentations and group discussion. Arrangements must be made prior to registration.

COMP-SCI 5699A Research And Dissertation Research In Computer Science
Doctoral research in computer science.

COMP-SCI 580 Introduction To Computer Networks
See course description Computer Science 480.

COMP-SCI 585 Artificial Intelligence
See course description Computer Science 485.

COMP-SCI 586 Artificial Intelligence Programming
Artificial Intelligence programming is a second course in Artificial Intelligence. It focuses on actual AI systems; their languages, implementations and applications. The course will include detailed case studies of various expert systems and discussions of current AI research efforts. Prerequisite: CS585 or consent of the instructor.

COMP-SCI 5899 Required Grad Enrollment

COMP-SCI 5899 Required Grad Enrollment

Electrical & Computer Engineering (E&C-ENGR)
E&C-ENGR 500PS Special Topics Umkc

E&C-ENGR 5501AP Special Topics In Electrical Engineering

E&C-ENGR 5501AP Special Topics In Electrical Engineering

E&C-ENGR 5501NN Special Topics In Electrical Engineering

E&C-ENGR 5501NN Special Topics In Electrical Engineering
E&C-ENGR 5512 Microwave Remote Sensing
Basic principles of remote sensing including scattering, absorption, transmission, and reflection of microwave energy. Basic radiative transfer theory. Microwave remote sensing systems including altimeters, scatterometers, radiometers, & synthetic-aperture systems. Principle applications of remote sensing systems including imaging, atmospheric sounding, oceanographic monitoring, ice-sheet dynamics, etc. Prerequisite: E&C-ENGR 414.

E&C-ENGR 5512 Advanced Radar Systems & Techniques
Radar equation; MTI, Pulsed Doppler and Tracking Radars; Detection of and information from Radar Signals; Radar Antennas, Transmitters and Receivers; Radar Propagation and clutter. Prerequisites: ECE 302 and ECE 380.

E&C-ENGR 5528 Advanced Embedded Systems
This course examines the hardware/software aspects associated with developing microcontroller-based computer systems. The students learn about the architecture and assembly language for popular microcontrollers and how to take advantage of a variety of input/output options that include binary ports, A/D and D/A converters, communication ports, and interfacing techniques for various applications. Graduate students are required to do Embedded Systems lab experiments. Prerequisites: E&C-ENGR 426 and E&C-ENGR 427.

E&C-ENGR 5530 Digital Electronics
Electronic hardware aspects of digital systems. Includes state-of-the-art information on integrated-circuit logic devices and their applications. Prerequisite: E&C-ENGR 435 or instructor's consent.
E&C-ENGR 5530 Digital Electronics
Electronic hardware aspects of digital systems. Includes state-of-the-art information on integrated-circuit logic devices and their applications. Prerequisite: E&C-ENGR 435 or instructor's consent.

E&C-ENGR 5532 Biomedical Instrumentation
Biomedical objectives, physical and engineering principles; optimal equipment design and actual performance of biomedical instrumentation; considers practical instrumentation problem solutions and unsolved problems. Prerequisite: E&C-ENGR 330 and instructor's consent.

E&C-ENGR 5532 Biomedical Instrumentation
Biomedical objectives, physical and engineering principles; optimal equipment design and actual performance of biomedical instrumentation; considers practical instrumentation problem solutions and unsolved problems. Prerequisite: E&C-ENGR 330 and instructor's consent.

E&C-ENGR 5533 Analog Integrated Circuit Design
This course will cover the analysis and design of analog and mixed signal integrated circuits, with an emphasis on design principles for realizing state-of-the-art analog circuits. The course will provide the critical concepts by giving physical and intuitive explanations in addition to the quantitative analysis of important analog building block circuits. First-order hand calculations and extensive computer simulations are utilized for performance evaluation and circuit design. Students will be required to complete a final project which will involve the design at the layout level of an analog circuit. Successful designs will be fabricated through the MOSIS Educational Service. Prerequisites: A good background in electronic circuits is highly desirable. Must have taken ECE 276-Circuit Theory and ECE 330. Intermediate knowledge of calculus and probability is also desirable.

E&C-ENGR 5534 Computer Arithmetic
Computer arithmetic is a sub field of digital computer organization. It deals with the hardware realization of arithmetic functions to support various computer architectures as well as with arithmetic algorithms for firmware/software implementation. A major thrust of digital computer arithmetic is the design of hardware algorithms and circuits to enhance the speed of various numeric operations. Verilog HDL is used as tool to simulate the algorithms and circuits. Prerequisites: ECE 226 and 5535.

E&C-ENGR 5535 Hdl-Based Digital Systems Design
This course covers hardware design techniques using a Hardware Description Language (HDL). It also discusses several digital system design methodologies, including structural specifications of hardware, HDL-based simulations and testbenches. Courses focus on the synthesis methodologies for use-defined primitives (UPD), data types, operators, Verilog constructs multiplexed datapaths, buses, bus drivers, FSMs, assignments, case, functions, tasks, named events and rapid prototyping techniques with Verilog HDL, ASICs and FPGAs. Prerequisites: E&C-ENGR 226 (Logic Design) or consent of instructor.

E&C-ENGR 5535 Hdl-Based Digital Systems Design
This course covers hardware design techniques using a Hardware Description Language (HDL). It also discusses several digital system design methodologies, including structural specifications of hardware, HDL-based simulations and testbenches. Courses focus on the synthesis methodologies for use-defined primitives (UPD), data types, operators, Verilog constructs multiplexed datapaths, buses, bus drivers, FSMs, assignments, case, functions, tasks, named events and rapid prototyping techniques with Verilog HDL, ASICs and FPGAs. Prerequisites: E&C-ENGR 226 (Logic Design) or consent of instructor.

E&C-ENGR 5536 Power Electronics II
Circuit concepts and analysis techniques for transistor switching regulators, thyristor choppers, transistor inverters, self-commutated thyristor inverters and cycloconverters. Prerequisite: E&C-ENGR 436.

E&C-ENGR 5536 Power Electronics II
Circuit concepts and analysis techniques for transistor switching regulators, thyristor choppers, transistor inverters, self-commutated thyristor inverters and cycloconverters. Prerequisite: E&C-ENGR 436.

E&C-ENGR 5537 Mixed-Signal Integrated Circuit Design
Modern integrated circuit design often requires the integration of analog and digital circuits on the same chip. This integration provides numerous advantages over purely analog or digital approaches. This course will cover the analysis and design of mixed-signal integrated circuits and will address the challenges of having both analog and digital circuits on the same substrate. Important mixed-signal circuits such as data converters and filters will be studied in detail. Prerequisites: ECE 433 or ECE 5533.

E&C-ENGR 5556 Instrumentation and Control
The instrumentation and control of electric generators, power plants, boilers and associated industrial processes and systems. Simulation modeling of systems such as electric generators boilers and associated systems. Prerequisites: ECE 358 or ME 415.
E&C-ENGR 5558 Automatic Control System Design
Techniques for feedback system design and analysis; computational aids, compensator design and examples, state variable methods, non-linear systems, ad sampled-data control systems. Prerequisites: ECE 226 and ECE 358.

E&C-ENGR 5560 Electric Power Distribution Systems
Operation and design of utility and industrial distribution systems including distribution system planning; load characteristics; application of distribution transformers; design of subtransmission lines, distribution substations, primary systems, secondary systems, Smart Grid; application of capacitors; voltage regulation and reliability. Prerequisites: ECE 466.

E&C-ENGR 5568 Economics Of Power Systems
Transmission loss formula coefficients, incremental costs and losses, economic scheduling of generation, and applications. Prerequisite: E&C-ENGR 466 and E&C-ENGR 467.

E&C-ENGR 5569 Reliability of Electric Power Systems
Development and use of mathematical models for the calculation and estimation of various measures of reliability in electric power systems, Reliability restoration times and cost assessment of generation, transmission, distribution and composite systems are analyzed. Prerequisite: Comp-Sci 394R.

E&C-ENGR 5570 Principles of Digital Communication Systems
Principles of random processes, information sources and source coding, modulation and demodulation, block and convolutional error control coding, and equalization. Prerequisites: ECE 380 and Comp-Sci 394R or equivalent.

E&C-ENGR 5572 Antennas & Propagation For Wireless Systems
This course introduces the mathematical aspects of the basic antenna parameters such as vector potential, gain, directivity, impedance, radiation patterns, and develops a comprehensive theory of antenna arrays including the effects of mutual coupling. In-depth modeling studies for wire, aperture and microstrip antennas, is presented; diffraction of plane electromagnetic (TE and TM) waves by perfectly conducting half-planes and wedges- applications to site-specific propagation path modeling in wireless systems. Prerequisites: E&C-ENGR 412 and E&C-ENGR 341 (or their equivalents) and written communication skills; must have a knowledge of MATLAB, C or C++ for computational work. Recommended: Prior or concurrent enrollment in PHYSICS 5500.

E&C-ENGR 5572 Antennas & Propagation For Wireless Systems
This course introduces the mathematical aspects of the basic antenna parameters such as vector potential, gain, directivity, impedance, radiation patterns, and develops a comprehensive theory of antenna arrays including the effects of mutual coupling. In-depth modeling studies for wire, aperture and microstrip antennas, is presented; diffraction of plane electromagnetic (TE and TM) waves by perfectly conducting half-planes and wedges- applications to site-specific propagation path modeling in wireless systems. Prerequisites: E&C-ENGR 412 and E&C-ENGR 341 (or their equivalents) and written communication skills; must have a knowledge of MATLAB, C or C++ for computational work. Recommended: Prior or concurrent enrollment in PHYSICS 5500.

E&C-ENGR 5577 Wireless Communications
Principles of the design and analysis of wireless communications. Study of propagation mechanisms, statistical characterization of wireless channels, diversity and MIMO, spread spectrum and CDMA, Orthogonal Frequency Division Multiplexing (OFDM). Prerequisites: Comp-Sci 394R or equivalent.

E&C-ENGR 5579 Digital Signal Processing In Telecommunications
Applications of digital signal processing in telecommunications systems; oversampling and quantization, Delta-Sigma modulation, linear predictive speech coding, adaptive filtering, echo canceller, adaptive receivers and equalizers for wireless communication, digital cellular, CDMA. Prerequisites: E&C-ENGR 474 and E&C-ENGR 480.

E&C-ENGR 5579 Digital Signal Processing In Telecommunications
Applications of digital signal processing in telecommunications systems; oversampling and quantization, Delta-Sigma modulation, linear predictive speech coding, adaptive filtering, echo canceller, adaptive receivers and equalizers for wireless communication, digital cellular, CDMA. Prerequisites: E&C-ENGR 474 and E&C-ENGR 480.

E&C-ENGR 5580 Advanced Digital Signal Processing
Topics in digital signal analysis and filtering, including hardware implementation, speech synthesis and recognition, multi-dimensional transforms, random-signal concepts, design methods and computer aids to analysis and design. Prerequisite: E&C-ENGR 480.
E&C-ENGR 5580  Advanced Digital Signal Processing
Topics in digital signal analysis and filtering, including hardware implementation, speech synthesis and recognition, multi-dimensional transforms, random-signal concepts, design methods and computer aids to analysis and design. Prerequisite: E&C-ENGR 480.

E&C-ENGR 5586  Pattern Recognition
Decision functions, distance measures, minimum distance classifiers, hard clustering methods, fuzzy clustering methods, statistical pattern recognition methods, Bayesian classifiers, error probabilities, estimation of density functions, perceptrons, least-mean-square algorithms, feature selection, dimensionality reduction and syntactic pattern recognition. Prerequisites: COMP-SCI 394R or MATH 436, course in high-level programming language, some matrix theory and linear algebra or instructor's consent.

E&C-ENGR 5588  Communication Theory I
Generalized communication systems, signal processing, signals as random processes, optimum receivers. Prerequisite: A statistics course, E&C-ENGR 478, and COMP-SCI 394R

E&C-ENGR 5590  Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590AC  Special Topics in Electrical and Computer Engineering

E&C-ENGR 5590AE  Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590AE  Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590AN  Special Topics in Electrical and Computer Engineering

E&C-ENGR 5590AS  Special Topics in Electrical and Computer Engineering

E&C-ENGR 5590AV  Special Topics in Electrical and Computer Engineering

E&C-ENGR 5590AW  Special Topics in Electrical and Computer Engineering

E&C-ENGR 5590B  Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590B  Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590BB  Special Topics in Electrical and Computer Engineering

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E&C-ENGR 5590BE  Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590BE  Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590BP Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590C Special Topics In Electrical And Computer Engineering

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E&C-ENGR 5590CA Special Topics In Electrical And Computer Engineering

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E&C-ENGR 5590CD Special Topics In Electrical And Computer Engineering

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E&C-ENGR 5590CI Special Topics in Electrical and Computer Engineering

E&C-ENGR 5590CL Special Topics In Electrical And Computer Engineering

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E&C-ENGR 5590CN Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590CS Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590CS Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590CT Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590DC Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590DC Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590DE Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590DS Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590DS Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590EN Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590ER Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590ER Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590ES Special Topics In Electrical And Computer Engineering

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E&C-ENGR 5590ET Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590FC Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590IC Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590IE Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590IP Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590IP Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590IR Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590MC Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590MC Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590MS Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590MW Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590NA Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590NA Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590NN Special Topics In Electrical And Computer Engineering

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E&C-ENGR 5590NR Special Topics In Electrical And Computer Engineering
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E&C-ENGR 5590ON Special Topics In Electrical And Computer Engineering
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E&C-ENGR 5590PD Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590PG Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590PG Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590PL Special Topics In Electrical And Computer Engineering
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E&C-ENGR 5590PQ Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590PR Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590PR Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590PS Special Topics in Electrical and Computer Engineering
E&C-ENGR 5590RD Special Topics In Electrical And Computer Engineering
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E&C-ENGR 5590RF Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590SD Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590SL Special Topics In Electrical And Computer Engineering
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E&C-ENGR 5590SL Special Topics In Electrical And Computer Engineering
E&C-ENGR 5590SP Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590T Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590T Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590TC Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590VL Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590WC Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590WW Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590WX Special Topics

E&C-ENGR 5590XX Special Topics In Electrical And Computer Engineering

E&C-ENGR 5590XX Special Topics In Electrical And Computer Engineering

E&C-ENGR 5594 Probability And Stochastic Processing For Engineering
Introduction to probability, multidimensional complex phaser random variables and stochastic processes in electrical engineering.
Prerequisites: ECE 482, ECE 414 and ECE 514.

E&C-ENGR 5597 Directed Readings
Readings in an electrical and computer engineering areas selected by the graduate student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Permission of instructor

E&C-ENGR 5597 Directed Readings
Readings in an electrical and computer engineering areas selected by the graduate student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Permission of instructor

E&C-ENGR 5598 Research Seminar
Graduate research and/or readings in an electrical and computer engineering area selected by the graduate student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Permission of instructor

E&C-ENGR 5598 Research Seminar
Graduate research and/or readings in an electrical and computer engineering area selected by the graduate student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Permission of instructor

E&C-ENGR 5599 Research
Independent investigation in field of electrical engineering to be presented in the form of a thesis.

E&C-ENGR 5599 Research
Independent investigation in field of electrical engineering to be presented in the form of a thesis.

E&C-ENGR 5600 Problems
Supervised investigation in electrical engineering to be presented in form of report.

E&C-ENGR 5600 Problems
Supervised investigation in electrical engineering to be presented in form of report.
E&C-ENGR 5606 Electromagnetic Scattering And Antenna Theory
Dyadic analysis; integral equations and Green's functions; field theorems-uniqueness, induction equivalence, reciprocity; image and Babinet's Principles; applications to antennas; method of stationary phase and applications to aperture antennas; array antennas and mutual coupling analysis; method of moments; asymptotic techniques and applications to EM scattering from wedges, cylinders, and spheres; RF propagation path loss modeling and conformal antennas. Prerequisite: E&C-ENGR 412 is required and PHYSICS 5500 is recommended.

E&C-ENGR 5606 Electromagnetic Scattering And Antenna Theory
Dyadic analysis; integral equations and Green's functions; field theorems-uniqueness, induction equivalence, reciprocity; image and Babinet's Principles; applications to antennas; method of stationary phase and applications to aperture antennas; array antennas and mutual coupling analysis; method of moments; asymptotic techniques and applications to EM scattering from wedges, cylinders, and spheres; RF propagation path loss modeling and conformal antennas. Prerequisite: E&C-ENGR 412 is required and PHYSICS 5500 is recommended.

E&C-ENGR 5616 Parallel And Distributed Processing
Covers the fundamental issues involved in designing and writing programs for simultaneous execution. Semaphores and monitor constructs are covered to provide a basis for critical section programming. Expansion of these concepts provide a basis for the analysis and design of control systems for multiprocessor devices and computer networks. Prerequisites: A suitable systems programming course or instructors consent.

E&C-ENGR 5616 Parallel And Distributed Processing
Covers the fundamental issues involved in designing and writing programs for simultaneous execution. Semaphores and monitor constructs are covered to provide a basis for critical section programming. Expansion of these concepts provide a basis for the analysis and design of control systems for multiprocessor devices and computer networks. Prerequisites: A suitable systems programming course or instructors consent.

E&C-ENGR 5617 Neural Network Based Computing System
The course will consider computing systems based on neural networks and learning models, along with implementations and applications of such systems. Prerequisite: Instructor's consent.

E&C-ENGR 5617 Neural Network Based Computing System
The course will consider computing systems based on neural networks and learning models, along with implementations and applications of such systems. Prerequisite: Instructor's consent.

E&C-ENGR 5618 Artificial Intelligence
Concepts, theories, and models pertaining to neural nets, pattern recognition, learning systems, and programmed problem solving. Prerequisite: Instructor's consent.

E&C-ENGR 5618 Artificial Intelligence
Concepts, theories, and models pertaining to neural nets, pattern recognition, learning systems, and programmed problem solving. Prerequisite: Instructor's consent.

E&C-ENGR 5619 Theory Of Automata
Sequential machines: Turing machines; deterministic and stochastic automata; applications of automata. Prerequisite: instructor's consent.

E&C-ENGR 5619 Theory Of Automata
Sequential machines: Turing machines; deterministic and stochastic automata; applications of automata. Prerequisite: instructor's consent.

E&C-ENGR 5624 Digital Software Systems Design
Characteristics and parameters of various software subsystem including assemblers, compilers, utility programs, special programming packages, interpreters, and operating systems; and principles of organization into efficient systems. Prerequisite: E&C-ENGR 524.

E&C-ENGR 5624 Digital Software Systems Design
Characteristics and parameters of various software subsystem including assemblers, compilers, utility programs, special programming packages, interpreters, and operating systems; and principles of organization into efficient systems. Prerequisite: E&C-ENGR 5524.

E&C-ENGR 5635 VLSI Systems Design
Course discuss design of the MOSFETs (nFETs and pFETs), and high speed CMOS cascades in VLSI. It also covers the design
of various arithmetic circuits, different fast adders, memories, and chip-level physical designs requirements in the VLSI subsystems are also the focus of this course. It uses Verilog HDL/VHDL as a tool to design VLSI systems. Prerequisites: E&C-ENGR 5535 or knowledge of VHDL or instructor's consents.

E&C-ENGR 5635 VLSI Systems Design
Course discuss design of the MOSFETs (nFETs and pFETs), and high speed CMOS cascades in VLSI. It also covers the design of various arithmetic circuits, different fast adders, memories, and chip-level physical designs requirements in the VLSI subsystems are also the focus of this course. It uses Verilog HDL/VHDL as a tool to design VLSI systems. Prerequisites: E&C-ENGR 535 or knowledge of VHDL or instructor's consents.

E&C-ENGR 5642 Advanced Integrated Circuits
Fundamentals of advanced integrated circuit design; diffusion, ion implantation and epitaxy; MOS and bipolar techniques; survey of current LSI design, fabrication and testing.

E&C-ENGR 5642 Advanced Integrated Circuits
Fundamentals of advanced integrated circuit design; diffusion, ion implantation and epitaxy; MOS and bipolar techniques; survey of current LSI design, fabrication and testing.

E&C-ENGR 5644 Liapunov And Related Nonlinear Methods In Automatic Control
A study of nonlinear methods in automatic control including phase plane analysis, describing function techniques, basic definitions and theorems of Liapunov, methods of generating Liapunov functions, applications of Liapunov's methods, and Popov's methods. Prerequisite: E&C-ENGR 544.

E&C-ENGR 5644 Liapunov And Related Nonlinear Methods In Automatic Control
A study of nonlinear methods in automatic control including phase plane analysis, describing function techniques, basic definitions and theorems of Liapunov, methods of generating Liapunov functions, applications of Liapunov's methods, and Popov's methods. Prerequisite: E&C-ENGR 544.

E&C-ENGR 5645 Optimal Control Theory
Analysis and design of dynamic systems using optimal control theory parameter optimization, dynamic optimization, computational methods, differential games. Prerequisite: E&C-ENGR 544.

E&C-ENGR 5645 Optimal Control Theory
Analysis and design of dynamic systems using optimal control theory parameter optimization, dynamic optimization, computational methods, differential games. Prerequisite: E&C-ENGR 544.

E&C-ENGR 5646 Stochastic Optimal Estimation And Control
Surveys random process theory; stochastic control and optimization; estimation and filtering based on Kalman-Bucy techniques; stochastic stability; adaptive and learning control systems. Prerequisite: E&C-ENGR 544.

E&C-ENGR 5646 Stochastic Optimal Estimation And Control
Surveys random process theory; stochastic control and optimization; estimation and filtering based on Kalman-Bucy techniques; stochastic stability; adaptive and learning control systems. Prerequisite: E&C-ENGR 544.

E&C-ENGR 5660 Power-Systems Stability
Performance of synchronous machines under transient conditions, power system stability, system fault computations using symmetrical components; computer solutions of power system problems.

E&C-ENGR 5660 Power-Systems Stability
Performance of synchronous machines under transient conditions, power system stability, system fault computations using symmetrical components; computer solutions of power system problems.

E&C-ENGR 5661 Solid State Energy Conversion
Solid state direct energy conversion; and design of thermoelectric generators and heat pumps.

E&C-ENGR 5661 Solid State Energy Conversion
Solid state direct energy conversion; and design of thermoelectric generators and heat pumps.

E&C-ENGR 5662 Power Electronic Drives
Advanced study of dc and ac motor drives controlled by power electronic methods, including phase controlled rectifier de chopper, cycloconverter, variable frequency inverters. Prerequisite: ECE 536 or consent of instructor. Recommended: E&C-
ENGR 544 and E&C-ENGR 562.

E&C-ENGR 5662 Power Electronic Drives
Advanced study of dc and ac motor drives controlled by power electronic methods, including phase controlled rectifier de
chopper, cycloconverter, variable frequency inverters. Prerequisite: ECE 536 or consent of instructor. Recommended: E&C-
ENGR 544 and E&C-ENGR 562.

E&C-ENGR 5664 Lightning And Switching Surges In Power Systems
Overvoltage, switching surge and lightning effects of a power system. Use of grounding and lightning arresters. Effects of surges
off and on machines. Prerequisites: ECE 466 and ECE 467, or equivalent.

E&C-ENGR 5664 Lightning And Switching Surges In Power Systems
Overvoltage, switching surge and lightning effects of a power system. Use of grounding and lightning arresters. Effects of surges
off and on machines. Prerequisites: ECE 466 and ECE 467, or equivalent.

E&C-ENGR 5668 Advanced Computer Methods In Power System Analysis
State estimation. Prerequisites: E&C-ENGR 466K and strong background in FORTRAN or C.

E&C-ENGR 5668 Advanced Computer Methods In Power System Analysis
State estimation. Prerequisites: E&C-ENGR 466K and strong background in FORTRAN or C.

E&C-ENGR 5670 Direct Current Power Systems
Characteristic and performance analysis of DC transmission lines and associated conversion systems.

E&C-ENGR 5670 Direct Current Power Systems
Characteristic and performance analysis of DC transmission lines and associated conversion systems.

E&C-ENGR 5672 Power Systems Relaying
Theory of relaying systems for power system protection, improvement of power system stability. Relay coordination;
performance of relays during transient swings and out-of-step conditions. Prerequisite: E&C-ENGR 466.

E&C-ENGR 5672 Power Systems Relaying
Theory of relaying systems for power system protection, improvement of power system stability. Relay coordination;
performance of relays during transient swings and out-of-step conditions. Prerequisite: E&C-ENGR 466.

E&C-ENGR 5674 Machine Intelligence
Formal languages in relation to natural language processing; formal languages, graphs, and image processing; formal logic and
automated theorem proving; natural language processing; aspects of problem solving and heuristic programming.

E&C-ENGR 5674 Machine Intelligence
Formal languages in relation to natural language processing; formal languages, graphs, and image processing; formal logic and
automated theorem proving; natural language processing; aspects of problem solving and heuristic programming.

E&C-ENGR 5675 Introduction To The Modeling And Management Of Uncertainty
Theoretical and practical issues in the modeling and management of uncertainty. Topics include probabilistic uncertainty, belief
theory and fuzzy set theory. Applications to computer vision, pattern recognition and expert systems.

E&C-ENGR 5675 Introduction To The Modeling And Management Of Uncertainty
Theoretical and practical issues in the modeling and management of uncertainty. Topics include probabilistic uncertainty, belief
theory and fuzzy set theory. Applications to computer vision, pattern recognition and expert systems.

E&C-ENGR 5676 Advanced Electric Circuit Analysis
Specialized study of mathematical analysis as applied to solutions of circuit networks with fixed and variable parameters.

E&C-ENGR 5676 Advanced Electric Circuit Analysis
Specialized study of mathematical analysis as applied to solutions of circuit networks with fixed and variable parameters.

E&C-ENGR 5677 Network Synthesis
Surveys linear active and nonreciprocal circuit elements, realizability conditions, methods for synthesizing active networks, and
practical applications. Prerequisite: E&C-ENGR 676.

E&C-ENGR 5677 Network Synthesis
Surveys linear active and nonreciprocal circuit elements, realizability conditions, methods for synthesizing active networks, and practical applications. Prerequisite: E&C-ENGR 676.

E&C-ENGR 5680 Digital And Sample-Data Systems
Introduces sampling and quantization, design of digital and sample-data systems, digital filters, adaptive sampling and quantization. Prerequisite: E&C-ENGR 480.

E&C-ENGR 5680 Digital And Sample-Data Systems
Introduces sampling and quantization, design of digital and sample-data systems, digital filters, adaptive sampling and quantization. Prerequisite: E&C-ENGR 480.

E&C-ENGR 5681 Applications Of Transforms
Applications of Laplace and other transform methods of solution of circuit and field problems.

E&C-ENGR 5681 Applications Of Transforms
Applications of Laplace and other transform methods of solution of circuit and field problems.

E&C-ENGR 5682 Coding Theory II
Further study of error-correcting codes; ring and cyclic codes, linear switching circuits, burst error codes, codes for arithmetic units, etc. Prerequisite: E&C-ENGR 579.

E&C-ENGR 5682 Coding Theory II
Further study of error-correcting codes; ring and cyclic codes, linear switching circuits, burst error codes, codes for arithmetic units, etc. Prerequisite: E&C-ENGR 579.

E&C-ENGR 5684 Computer Vision
Image processing methods for segmentation, object representation, scene description and scene interpretation. Prerequisite: E&C-ENGR 484 or consent of instructor.

E&C-ENGR 5684 Computer Vision
Image processing methods for segmentation, object representation, scene description and scene interpretation. Prerequisite: E&C-ENGR 484 or consent of instructor.

E&C-ENGR 5688 Communication Theory II
Probability theory of analog and digital communication in the presence of random process noise. Encoding systems, detection systems, optimum receivers. Prerequisite: E&C-ENGR 472.

E&C-ENGR 5688 Communication Theory II
Probability theory of analog and digital communication in the presence of random process noise. Encoding systems, detection systems, optimum receivers. Prerequisite: E&C-ENGR 472.

E&C-ENGR 5690 Advanced Topics In Electrical And Computer Engineering

E&C-ENGR 5690 Advanced Topics In Electrical And Computer Engineering

E&C-ENGR 5690EM Advanced Topics In Electrical And Computer Engineering

E&C-ENGR 5690EM Advanced Topics In Electrical And Computer Engineering

E&C-ENGR 5690ET Advanced Topics In Electrical And Computer Engineering

E&C-ENGR 5690ET Advanced Topics In Electrical And Computer Engineering
E&C-ENGR 5697 Advanced Directed Readings
Advanced readings in an electrical and computer engineering area selected by the graduate student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Permission of instructor Offered: Every semester

E&C-ENGR 5697 Advanced Directed Readings
Advanced readings in an electrical and computer engineering area selected by the graduate student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Permission of instructor Offered: Every semester

E&C-ENGR 5698 Advanced Research Seminar
Advanced Graduate research and/or readings in an electrical and computer engineering area selected by the doctoral student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Permission of instructor Offered: Every semester

E&C-ENGR 5698 Advanced Research Seminar
Advanced Graduate research and/or readings in an electrical and computer engineering area selected by the doctoral student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Permission of instructor Offered: Every semester

E&C-ENGR 5699 Dissertation Research
Doctoral Dissertation

E&C-ENGR 5699 Dissertation Research
Doctoral Dissertation

Mechanical Engineering (MEC-ENGR)
MEC-ENGR 5500 Problems
Supervised investigation in mechanical engineering to be presented in the form of a report.

MEC-ENGR 5500 Problems
Supervised investigation in mechanical engineering to be presented in the form of a report.

MEC-ENGR 5501 Advanced Topics In Mechanical Engineering

MEC-ENGR 5501AC Advanced Topics In Mechanical Engineering

MEC-ENGR 5501BI Advanced Topics In Mechanical Engineering

MEC-ENGR 5501E Advanced Topics In Mechanical Engineering

MEC-ENGR 5501EC Advanced Topics In Mechanical Engineering

MEC-ENGR 5501FA Advanced Topics In Mechanical Engineering

MEC-ENGR 5501G Advanced Topics In Mechanical Engineering

MEC-ENGR 5501H Advanced Topics In Mechanical Engineering

MEC-ENGR 5501HP Advanced Topics In Mechanical Engineering

MEC-ENGR 5501HP Advanced Topics In Mechanical Engineering
MEC-ENGR 5501J Advanced Topics In Mechanical Engineering

MEC-ENGR 5501L Advanced Topics In Mechanical Engineering

MEC-ENGR 5501L Advanced Topics In Mechanical Engineering

MEC-ENGR 5501M Advanced Topics In Mechanical Engineering

MEC-ENGR 5501M Advanced Topics In Mechanical Engineering

MEC-ENGR 5501MM Advanced Topics in Mechanical Engineering

MEC-ENGR 5501MS Advanced Topics in Mechanical Engineering

MEC-ENGR 5501N Advanced Topics In Mechanical Engineering

MEC-ENGR 5501N Advanced Topics In Mechanical Engineering

MEC-ENGR 5501NE Advanced Topics in Mechanical Engineering

MEC-ENGR 5501OE Advanced Topics In Mechanical Engineering

MEC-ENGR 5501P Advanced Topics In Mechanical Engineering

MEC-ENGR 5501P Advanced Topics In Mechanical Engineering

MEC-ENGR 5501PL Advanced Topics In Mechanical Engineering

MEC-ENGR 5501PL Advanced Topics In Mechanical Engineering

MEC-ENGR 5501PL1 Advanced Topics In Mechanical Engineering

MEC-ENGR 5501PL2 Advanced Topics In Mechanical Engineering

MEC-ENGR 5501R Advanced Topics In Mechanical Engineering

MEC-ENGR 5501R Advanced Topics In Mechanical Engineering

MEC-ENGR 5501RE Advanced Topics in Mechanical Engineering
MEC-ENGR 5501SB Advanced Topics in Mechanical Engineering

MEC-ENGR 5501T Advanced Topics In Mechanical Engineering

MEC-ENGR 5501T Advanced Topics In Mechanical Engineering

MEC-ENGR 5501TC Advanced Topics in Mechanical Engineering

MEC-ENGR 5501TS Advanced Topics In Mechanical Engineering

MEC-ENGR 5501VA Advanced Topics In Mechanical Engineering

MEC-ENGR 5501Z Advanced Topics In Mechanical Engineering

MEC-ENGR 5504 Advanced Metallurgy Principles
Advanced treatment of physical metallurgy principles to provide a theoretical understanding of engineering materials. Prerequisite: MEC-ENGR 324.

MEC-ENGR 5504 Advanced Metallurgy Principles
Advanced treatment of physical metallurgy principles to provide a theoretical understanding of engineering materials. Prerequisite: MEC-ENGR 324.

MEC-ENGR 5505 Imaging Techniques In Materials Science
Introduction to imaging techniques, including x-rays, neutron beams, electron beams and acoustic energy, to study material properties and structure. Prerequisite: MEC-ENGR 324

MEC-ENGR 5505 Imaging Techniques In Materials Science
Introduction to imaging techniques, including x-rays, neutron beams, electron beams and acoustic energy, to study material properties and structure. Prerequisite: MEC-ENGR 324

MEC-ENGR 5511 Introduction to Biomechanics
This course is to provide students with an introduction to the engineering principles of biomechanics. Following a general introduction to anatomical terminology, students will be exposed to three primary sub-disciplines of biomechanics including kinetics and kinematics of human movement, muscle mechanics, and biomaterials. Students will become familiar with measurement techniques and current research being done within each of these units through lectures and in-class discussions and presentations of relevant journal articles. A final semester project, culminating in a NIH-style research proposal, will be developed throughout the semester in one of the three units presented.

MEC-ENGR 5512 Biodynamics
Introduction to musculoskeletal biomechanics including; computational biomechanics, movement simulation, motor control and musculoskeletal tissues. Prerequisites: ME 5511

MEC-ENGR 5513 Bioinstrumentation of Human Motion
The purpose of this course is to provide an opportunity for students to gain a hands-on, in-depth understanding of the kinematic, kinetic, and electromyography measurement and analysis techniques used to quantify biomechanics of human motion. Students will also be introduced to neurological measurement techniques used to quantify brain activity related to the biomechanical components of human motion. To prepare for these topics, a review of data sampling and signal processing theory will be provided. Prerequisites: ME 5511

MEC-ENGR 5514 Material Science for Advanced Application
Study of the physical and mechanical metallurgy of alloy systems of interest in engineering applications. Prerequisite: ME 324.

MEC-ENGR 5533 Statistical Thermodynamics
Statistical methods of evaluating thermodynamic properties. Elements of quantum mechanics, statistical mechanics and kinetic
theory applied to topics of engineering thermodynamics. Prerequisites: MEC-ENGR 360 and MEC-ENGR 399

**MEC-ENGR 5533** Statistical Thermodynamics  
Statistical methods of evaluating thermodynamic properties. Elements of quantum mechanics, statistical mechanics and kinetic theory applied to topics of engineering thermodynamics. Prerequisites: MEC-ENGR 360 and MEC-ENGR 399

**MEC-ENGR 5534** Fracture Mechanics I  
Mechanics of flawed structure. Concepts include Griffith theory, Barenblatt's theory, Irwin analysis, energy analysis of cracked bodies, fracture toughness testing, plane strain, plane stress, transition temperature concepts, subcritical flaw growth. Prerequisite: MEC-ENGR 324.

**MEC-ENGR 5534** Fracture Mechanics I  
Mechanics of flawed structure. Concepts include Griffith theory, Barenblatt's theory, Irwin analysis, energy analysis of cracked bodies, fracture toughness testing, plane strain, plane stress, transition temperature concepts, subcritical flaw growth. Prerequisite: MEC-ENGR 324.

**MEC-ENGR 5535** Heat Transfer - Conduction  
Techniques for determining temperature distribution and temperature history within solids. Prerequisite: MEC-ENGR 399.

**MEC-ENGR 5535** Heat Transfer - Conduction  
Techniques for determining temperature distribution and temperature history within solids. Prerequisite: MEC-ENGR 399.

**MEC-ENGR 5542** Introduction To Computational Fluid Dynamics And Heat Transfer  
Introduction to the principles and development of the finite-difference approximations to the governing differential equations of viscous and inviscid fluid flow, as well as heat transfer. Introduction to discretization methods and the calculation of flow fields, convection, diffusion and conduction. Prerequisites: MEC-ENGR 399 and MEC-ENGR 441

**MEC-ENGR 5542** Introduction To Computational Fluid Dynamics And Heat Transfer  
Introduction to the principles and development of the finite-difference approximations to the governing differential equations of viscous and inviscid fluid flow, as well as heat transfer. Introduction to discretization methods and the calculation of flow fields, convection, diffusion and conduction. Prerequisites: MEC-ENGR 399 and MEC-ENGR 441

**MEC-ENGR 5543** Industrial Refrigeration  
Introduction to and analysis of the thermodynamic cycles and equipment used in Industrial Refrigeration. Applications of Industrial Refrigeration are also discussed.

**MEC-ENGR 5545** Instrumentation Theory  
Applied theory of dynamical and energizing systems for analyzing, computing, control devices. Prerequisite: MEC-ENGR 362

**MEC-ENGR 5545** Instrumentation Theory  
Applied theory of dynamical and energizing systems for analyzing, computing, control devices. Prerequisite: MEC-ENGR 362

**MEC-ENGR 5547** Contracts and Law for Engineers  
Law of contracts, including types, construction, interpretation, performance, and termination. Construction and Engineering service contracts: Proposals, general and financial conditions, specifications and drawings. Corporate and professional and personal liability, insurance and bonds, property, evidence, arbitration and mediation.

**MEC-ENGR 5549** Environmental Compliance, Auditing & Permitting  
Statutes, regulations and permitting for air hazardous wastes and storage tanks. Asbestos, radon, EMF, and emerging areas of regulatory concern. Siting issues. Criminal and civil enforcement. Prerequisites: ME 285 and CE 211.

**MEC-ENGR 5554** Power Generation Systems  
Fundamentals of the power industry in a format suitable for all engineering disciplines. Survey of electric power systems, including fossil and nuclear steam cycles, combustion turbines, combines cycles, and renewable such as solar and wind. Introduction to major machinery components, systems, controls, and an overview of fuels, emissions, and emission control technologies.

**MEC-ENGR 5557** Mechatronics System Design  
Basic principles of mechatronic applications for mechanical engineers through course instruction and "hands-on" activities and projects. Prerequisites: ME 362 and ME 415.
MEC-ENGR 5558 Dynamical Theory
Engineering principles and application in mathematical expression of energy, force, inertia system. Prerequisite: MEC-ENGR 485 and MATH 345.

MEC-ENGR 5558 Dynamical Theory
Engineering principles and application in mathematical expression of energy, force, inertia system. Prerequisite: MEC-ENGR 485 and MATH 345.

MEC-ENGR 5560 Electromechanical Conversion
Basic principles of energy conversion; magnetic circuitry in general and in machinery; DC machine theory, transformer operation and circuit application; synchronous machine theory; electric system operation; introduction to power electronic principles and practices. (Cross-listed with ME 460) Prerequisites: ME 220 or equivalent.

MEC-ENGR 5560 Electromechanical Conversion
Basic principles of energy conversion; magnetic circuitry in general and in machinery; DC machine theory, transformer operation and circuit application; synchronous machine theory; electric system operation; introduction to power electronic principles and practices. (Cross-listed with ME 460) Prerequisites: ME 220 or equivalent.

MEC-ENGR 5563 Construction Law
Broad concepts in law as related to business, industry, and the processes of design, procurement, construction, and the role of the design professional.

MEC-ENGR 5565 Project Finance
This course introduces students to the financial concepts faced by engineers. Students will learn how to read and apply financial statements and how to use these same financial concepts in developing pro formas to evaluate and support major capital investments. The effect of time on the value of money, appropriate discount factors, and the internal rate of return are explored in the class. All students will be required to develop a comprehensive financial model to evaluate/justify a real world capital project.

MEC-ENGR 5570 Experimental Design & Analysis
Presentation of concepts and methods of statistical analysis and the design of experiments. Concepts, techniques, interpretation, and use of results are stressed. Focus is on experimental strategy and objectives, and the application of the methods discussed, rather than the mechanics of derivation. Major sections include: a review of hypothesis testing and basic analysis of variance techniques; single factor experiments including 2k and 3k design, confounding, and Taguchi philosophy; nested and split plot designs; analysis of covariance and an introduction to response surface methods.

MEC-ENGR 5572 Advanced Statistics
The objective of this course is to review the concepts and methods of undergraduate first course in statistical analysis and extend the students understanding to cover topics typically covered in a second course in applied engineering statistics. Prerequisite: CE 319 or equivalent.

MEC-ENGR 5586 Applied Finite Element Analysis
The study of advanced simulation techniques for the solution to engineering problems. The use of Finite Element Method toward solving mechanical, structural, vibration and potential flow problems will be explored. The use of current commercial simulation tools will be used extensively. Prerequisites: ME 130, CE 275, Matrix Algebra

MEC-ENGR 5595 Microscale Heat Transfer
Review of existing models. Concept of thermal lagging and the second-law admissibility. Applications to low temperatures, thermal processing of thin-film devices; amorphous materials; advanced composites. Prerequisites: MEC-ENGR 399.

MEC-ENGR 5595 Microscale Heat Transfer
Review of existing models. Concept of thermal lagging and the second-law admissibility. Applications to low temperatures, thermal processing of thin-film devices; amorphous materials; advanced composites. Prerequisites: MEC-ENGR 399.

MEC-ENGR 5599 Research
Independent investigation in field of mechanical engineering to be presented as a thesis.

MEC-ENGR 5599 Research
Independent investigation in field of mechanical engineering to be presented as a thesis.

MEC-ENGR 5601 Doctoral Topics In Mechanical Engineering
MEC-ENGR 5601 Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601A Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601AC Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601C Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601C Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601E Doctoral Topics in Mechanical Engineering

MEC-ENGR 5601E Doctoral Topics in Mechanical Engineering

MEC-ENGR 5601F Doctoral Topics in Mechanical Engineering

MEC-ENGR 5601G Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601G Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601H Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601J Doctoral Topics in Mechanical Engineering

MEC-ENGR 5601R Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601R Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601S Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601S Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601SA Doctoral Topics In Mechanical Engineering

MEC-ENGR 5601SA Doctoral Topics In Mechanical Engineering

MEC-ENGR 5603 Directed Readings In Mechanical Engineering
Faculty supervised readings course. Prerequisite: Graduate Standing
MEC-ENGR 5603 Directed Readings In Mechanical Engineering
Faculty supervised readings course. Prerequisite: Graduate Standing

MEC-ENGR 5610 Seminar
Review recent investigations, projects of major importance in mechanical engineering.

MEC-ENGR 5610 Seminar
Review recent investigations, projects of major importance in mechanical engineering.

MEC-ENGR 5616 Theory Of Plasticity
Plastic yield conditions and stress-strain relations. Behavior of elastic-perfectly plastic members. Plain strain in plastic members. Prerequisite: MEC-ENGR 621; and MEC-ENGR 622 or instructor's consent

MEC-ENGR 5616 Theory Of Plasticity
Plastic yield conditions and stress-strain relations. Behavior of elastic-perfectly plastic members. Plain strain in plastic members. Prerequisite: MEC-ENGR 621; and MEC-ENGR 622 or instructor's consent

MEC-ENGR 5618 Advanced Dynamics
Fundamental principles of advanced rigid body dynamics with applications. Special mathematical techniques including Lagrangian and Hamiltonian methods.

MEC-ENGR 5621 Continuum Mechanics
Introductory course in the mechanics of continuous media. Basic concepts of stress, strain, constitutive relationships; conservation laws are treated using Cartesian tensor notation. Examples from both solid and fluid mechanics investigated. Prerequisite: MEC-ENGR 351, MATH 345 and CIV-ENGR 276. Same as CIV-ENGR 621

MEC-ENGR 5621 Continuum Mechanics
Introductory course in the mechanics of continuous media. Basic concepts of stress, strain, constitutive relationships; conservation laws are treated using Cartesian tensor notation. Examples from both solid and fluid mechanics investigated. Prerequisite: MEC-ENGR 351, MATH 345 and CIV-ENGR 276. Same as CIV-ENGR 621

MEC-ENGR 5622 Theory Of Elasticity
Stress and strain at a point. General equations of elasticity. Plane stress, plain strain problems; torsion of prismatic bars. Energy methods. Same as CIV-ENGR 622. Prerequisite: MEC-ENGR 621

MEC-ENGR 5622 Theory Of Elasticity
Stress and strain at a point. General equations of elasticity. Plane stress, plain strain problems; torsion of prismatic bars. Energy methods. Same as CIV-ENGR 622. Prerequisite: MEC-ENGR 621

MEC-ENGR 5623 Theory Of Plates And Shells
Bending of plates with various loading and boundary conditions. Deformations, stresses in thin shells. Same as CIV-ENGR 623. Prerequisite: MEC-ENGR 621

MEC-ENGR 5623 Theory Of Plates And Shells
Bending of plates with various loading and boundary conditions. Deformations, stresses in thin shells. Same as CIV-ENGR 623. Prerequisite: MEC-ENGR 621

MEC-ENGR 5624 Theory Of Elastic Stability
Buckling of columns, beams, rings, curved bars, thin plates, shells. Same as CIV-ENGR 624. Prerequisite: MEC-ENGR 621

MEC-ENGR 5624 Theory Of Elastic Stability
Buckling of columns, beams, rings, curved bars, thin plates, shells. Same as CIV-ENGR 624. Prerequisite: MEC-ENGR 621

MEC-ENGR 5627 Dynamics Of Machinery
Dynamic balancing or rotating and reciprocating components of turbo-machinery and internal combustion engines. Gas torque analysis, vibration stress analysis and equivalent systems. Numerical and graphical techniques. Prerequisite: MEC-ENGR 484.

MEC-ENGR 5627 Dynamics Of Machinery
Dynamic balancing or rotating and reciprocating components of turbo-machinery and internal combustion engines. Gas torque analysis, vibration stress analysis and equivalent systems. Numerical and graphical techniques. Prerequisite: MEC-ENGR 484.
MEC-ENGR 5630 Boundary Layer Theory
Fluid motion at high Reynolds Number. Derivation of Navier-Stokes equations and boundary layer equations. Methods of solution. Transition to turbulent flow. Completely developed turbulent flow. Prerequisite: MEC-ENGR 441.

MEC-ENGR 5630 Boundary Layer Theory
Fluid motion at high Reynolds Number. Derivation of Navier-Stokes equations and boundary layer equations. Methods of solution. Transition to turbulent flow. Completely developed turbulent flow. Prerequisite: MEC-ENGR 441.

MEC-ENGR 5636 Heat Transfer-Convection
Principles of heat transfer by convection, review of boundary layer theory, laminar and turbulent heat transfer, temperature-dependent fluid properties, high velocity heat transfer and an introduction to mass transfer. Prerequisites: MEC-ENGR 399 and MEC-ENGR 630.

MEC-ENGR 5636 Heat Transfer-Convection
Principles of heat transfer by convection, review of boundary layer theory, laminar and turbulent heat transfer, temperature-dependent fluid properties, high velocity heat transfer and an introduction to mass transfer. Prerequisites: MEC-ENGR 399 and MEC-ENGR 630.

MEC-ENGR 5637 Heat Transfer-Radiation

MEC-ENGR 5637 Heat Transfer-Radiation

MEC-ENGR 5638 Introduction To Turbulence
Introduction to the physical phenomena of turbulence, supported by mathematical and statistical descriptions. Especially appropriate for engineers involved in research aspects of momentum, heat, and mass transport. Prerequisite: MEC-ENGR 441

MEC-ENGR 5638 Introduction To Turbulence
Introduction to the physical phenomena of turbulence, supported by mathematical and statistical descriptions. Especially appropriate for engineers involved in research aspects of momentum, heat, and mass transport. Prerequisite: MEC-ENGR 441

MEC-ENGR 5639 Introduction To Two Phase Flow
An introduction to the analysis of the mechanics and transport processes in two phase flows. Prerequisite: MEC-ENGR 441.

MEC-ENGR 5639 Introduction To Two Phase Flow
An introduction to the analysis of the mechanics and transport processes in two phase flows. Prerequisite: MEC-ENGR 441.

MEC-ENGR 5643 Industrial Refrigeration
Introduction to and analysis of the thermodynamic cycles and equipment used in Industrial Refrigeration. Applications of Industrial Refrigeration are also discussed.

MEC-ENGR 5644 Fracture And Fatigue Prevention In Engineering Practice
Practical design problems. Introduction to retrofit design, maintenance, product improvement and new design from a fatigue and fracture prevention philosophy. Fail safe and safe life designs are presented. Prerequisite: MEC-ENGR 534.

MEC-ENGR 5644 Fracture And Fatigue Prevention In Engineering Practice
Practical design problems. Introduction to retrofit design, maintenance, product improvement and new design from a fatigue and fracture prevention philosophy. Fail safe and safe life designs are presented. Prerequisite: MEC-ENGR 534.

MEC-ENGR 5651 Computational Fluid Dynamics
Principles and development of the finite-difference approximations to the governing differential equations of viscous and inviscid fluid flow. Application to selected model equations. Introduction to boundary layer and Navier-Stokes codes, and to grid generation. Prerequisite: MEC-ENGR 542.

MEC-ENGR 5651 Computational Fluid Dynamics
Principles and development of the finite-difference approximations to the governing differential equations of viscous and inviscid fluid flow. Application to selected model equations. Introduction to boundary layer and Navier-Stokes codes, and to grid
MEC-ENGR 5660 Combustion
Study of advanced topics in flames and combustion. Detonation and deflagrations, supersonic combustion, air pollution. Prerequisite: MEC-ENGR 441.

MEC-ENGR 5660 Combustion
Study of advanced topics in flames and combustion. Detonation and deflagrations, supersonic combustion, air pollution. Prerequisite: MEC-ENGR 441.

MEC-ENGR 5676 Finite Element Methods
The concepts and fundamentals of the finite element method with applications to problems in solid and fluid mechanics. Prerequisite: MEC-ENGR 486 or CIV-ENGR 421. Same as CIV-ENGR 676

MEC-ENGR 5676 Finite Element Methods
The concepts and fundamentals of the finite element method with applications to problems in solid and fluid mechanics. Prerequisite: MEC-ENGR 486 or CIV-ENGR 421. Same as CIV-ENGR 676

MEC-ENGR 5679 Dynamics Of Structures
Study of the dynamic behavior of structures. Analysis of equivalent lumped parameter systems for the design of structures in a dynamic environment. Prerequisites: MEC-ENGR 484 and CIV-ENGR 276; or CIV-ENGR 421, MATH 345, and MEC-ENGR 285

MEC-ENGR 5679 Dynamics Of Structures
Study of the dynamic behavior of structures. Analysis of equivalent lumped parameter systems for the design of structures in a dynamic environment. Prerequisites: MEC-ENGR 484 and CIV-ENGR 276; or CIV-ENGR 421, MATH 345, and MEC-ENGR 285

MEC-ENGR 5685 Advanced Vibration Analysis
Advanced topics in vibration theory and its application to Mechanical systems. Topics include vibration analysis of multi-degree of freedom, distributed and nonlinear systems, random vibration analysis, and vibration control. Prerequisite: MEC-ENGR 484 or instructor's consent.

MEC-ENGR 5685 Advanced Vibration Analysis
Advanced topics in vibration theory and its application to Mechanical systems. Topics include vibration analysis of multi-degree of freedom, distributed and nonlinear systems, random vibration analysis, and vibration control. Prerequisite: MEC-ENGR 484 or instructor's consent.

MEC-ENGR 5699 Research And Dissertation
Doctoral dissertation research.

MEC-ENGR 5699 Research And Dissertation
Doctoral dissertation research.

MEC-ENGR 712 Advanced Biomechanics
The fabrication and clinical application of twin-wire and labio lingual appliances.

Conservatory of Music & Dance
Conservatory of Music and Dance Graduate Courses
Conservatory (CONSVTY)
CONSVTY 500 Graduate Instrument

CONSVTY 500B Special Applied Studies

CONSVTY 500PS Special Topics Umkc

CONSVTY 501PS Special Topics Umkc
CONSVTY 502PS Special Topics Umkc

CONSVTY 503 Special Applied Studies-Band And Orchestral Instruments
This course is for the advanced performer for pedagogical or review purposes. An audition is required. May be repeated for credit.

CONSVTY 5517 Advanced Opera Workshop

CONSVTY 5517 Advanced Opera Workshop

CONSVTY 5523 Analytical Procedures
An introduction to recent methods of stylistic and formal analysis including twelve-tone, Schenkerian and set theoretic approaches.

CONSVTY 5523 Analytical Procedures
An introduction to recent methods of stylistic and formal analysis including twelve-tone, Schenkerian and set theoretic approaches.

CONSVTY 5524B Advanced Analysis II - Common Practice Period
Theory and analysis of selected works from the 17th through the mid-19th century. Prerequisite: CONSVTY 5523 or consent of the instructor.

CONSVTY 5524B Advanced Analysis II - Common Practice Period
Theory and analysis of selected works from the 17th through the mid-19th century. Prerequisite: CONSVTY 5523 or consent of the instructor.

CONSVTY 5524C Advanced Analysis III - Contemporary Period
Theory and analysis of selected works from the late 19th century to the present. Prerequisite: CONSVTY 5523 or consent of the instructor.

CONSVTY 5524C Advanced Analysis III - Contemporary Period
Theory and analysis of selected works from the late 19th century to the present. Prerequisite: CONSVTY 5523 or consent of the instructor.

CONSVTY 5526A Introduction To Schenkerian Theory And Analysis
An introduction to the theories and analytic methodology of Heinrich Schenker (1868-1935). Prerequisite: Passing theory matriculation score or completion of CONSVTY 421.

CONSVTY 5526A Introduction To Schenkerian Theory And Analysis
An introduction to the theories and analytic methodology of Heinrich Schenker (1868-1935). Prerequisite: Passing theory matriculation score or completion of CONSVTY 421.

CONSVTY 5526B Schenkerian Analysis
Continuation of 5526A emphasizing the acquisition of advanced skills in Schenkerian analysis. Prerequisite: CONSVTY 5526A and consent of the instructor.

CONSVTY 5526B Schenkerian Analysis
Continuation of 5526A emphasizing the acquisition of advanced skills in Schenkerian analysis. Prerequisite: CONSVTY 5526A and consent of the instructor.

CONSVTY 5527 Advanced Counterpoint
Analysis and writing in 18th century style and forms including canon, invention and fugue.

CONSVTY 5527 Advanced Counterpoint
Analysis and writing in 18th century style and forms including canon, invention and fugue.

CONSVTY 5528 Contemporary Harmonic/Contrapuntal Styles
Analysis and writing in contemporary styles. Prerequisite: CONSVTY 428 or consent of the instructor.
CONSVTY 5528 Contemporary Harmonic/Contrapuntal Styles
Analysis and writing in contemporary styles. Prerequisite: CONSVTY 428 or consent of the instructor.

CONSVTY 5529 Aspects Of Time And Music
A course offering a broad-based, multi-disciplinary exploration of the natures of time preparatory to an in-depth study of some of music's primary temporal aspects; these focus on complex treatments of rhythm and meter in tonal music. Prerequisite: CONSVTY 5523, CONSVTY 5591G, or permission of instructor. Offered: Winter 2002

CONSVTY 5529 Aspects Of Time And Music
A course offering a broad-based, multi-disciplinary exploration of the natures of time preparatory to an in-depth study of some of music's primary temporal aspects; these focus on complex treatments of rhythm and meter in tonal music. Prerequisite: CONSVTY 5523, CONSVTY 5591G, or permission of instructor. Offered: Winter 2002

CONSVTY 5531 Advanced Orchestration
Analysis of advanced orchestration techniques with a focus on relatively recent music for large instrumental ensembles. Discussion of student works-in-progress for orchestra or wind ensemble. Prerequisite: Consivy 431 or consent of the instructor

CONSVTY 5531 Advanced Orchestration
Analysis of advanced orchestration techniques with a focus on relatively recent music for large instrumental ensembles. Discussion of student works-in-progress for orchestra or wind ensemble. Prerequisite: Consivy 431 or consent of the instructor

CONSVTY 5533 Advanced Composition
Intensive work in advanced composition in the large forms for various vocal and instrumental ensembles and orchestra. May be repeated for credit. Prerequisite: Consent of the instructor.

CONSVTY 5533 Advanced Composition
Intensive work in advanced composition in the large forms for various vocal and instrumental ensembles and orchestra. May be repeated for credit. Prerequisite: Consent of the instructor.

CONSVTY 5534 Advanced Electronic Music Composition
Creative, original composition of music in diverse styles utilizing the full range of equipment and techniques available. May be repeated for credit. Prerequisite: Consent of the instructor.

CONSVTY 5534 Advanced Electronic Music Composition
Creative, original composition of music in diverse styles utilizing the full range of equipment and techniques available. May be repeated for credit. Prerequisite: Consent of the instructor.

CONSVTY 5534B Advanced Computer Music Language Study
This course is designed to fulfill the computer language option of the foreign language requirement for DMA students in composition. Focus will be on development and mastery of skills in computer languages specifically related to musical composition, such as MAX or Csound, or in compositional uses of more general languages such as html, C, and Lingo. Prerequisite: CONSVTY 335 or consent of instructor.

CONSVTY 5534B Advanced Computer Music Language Study
This course is designed to fulfill the computer language option of the foreign language requirement for DMA students in composition. Focus will be on development and mastery of skills in computer languages specifically related to musical composition, such as MAX or Csound, or in compositional uses of more general languages such as html, C, and Lingo. Prerequisite: CONSVTY 335 or consent of instructor.

CONSVTY 5534C Electroacoustic Music Aesthetics And Analysis
An overview of the context and practice of electroacoustic music in two parts: 1) new aesthetic parameters of sonic composition made possible by technology; and 2) creating a cogent analysis of a work by developing individual, personalized analytical tools. Offered in rotation with CONSVTY 5534 (Advanced Electronic Composition) and CONSVTY 5534b (Computer Programming for Musicians). Prerequisite: None Offered: Every 3rd semester

CONSVTY 5534C Electroacoustic Music Aesthetics And Analysis
An overview of the context and practice of electroacoustic music in two parts: 1) new aesthetic parameters of sonic composition made possible by technology; and 2) creating a cogent analysis of a work by developing individual, personalized analytical tools. Offered in rotation with CONSVTY 5534 (Advanced Electronic Composition) and CONSVTY 5534b (Computer Programming for Musicians). Prerequisite: None Offered: Every 3rd semester
CONSVTY 5540A Seminar In Adv Music Education Methods For Elementry Teachers
A seminar in the design of music materials for K-6 students, preparation of elementary music teachers, and a review of elementary music literature and materials.

CONSVTY 5540A Seminar In Adv Music Education Methods For Elementry Teachers
A seminar in the design of music materials for K-6 students, preparation of elementary music teachers, and a review of elementary music literature and materials.

CONSVTY 5540B Advanced Methods In Instrumental Music
Organizational and rehearsal techniques for programs from the beginning bands and orchestras through high school and college ensembles. Includes information regarding methods, materials and program building.

CONSVTY 5540B Advanced Methods In Instrumental Music
Organizational and rehearsal techniques for programs from the beginning bands and orchestras through high school and college ensembles. Includes information regarding methods, materials and program building.

CONSVTY 5540C Advanced Methods In Choral Music
Addresses the organization of secondary and college choral classes and ensembles. Areas of study include methods, materials and program building.

CONSVTY 5540C Advanced Methods In Choral Music
Addresses the organization of secondary and college choral classes and ensembles. Areas of study include methods, materials and program building.

CONSVTY 5543 Psychology Of Music
The study of psychological aspects of music including acoustical phenomena and factors affecting musical preference, perception and taste. A review of related literature and basic methodology for experimental investigation and quantification of related variables will be included. Prerequisite: None

CONSVTY 5543 Psychology Of Music
The study of psychological aspects of music including acoustical phenomena and factors affecting musical preference, perception and taste. A review of related literature and basic methodology for experimental investigation and quantification of related variables will be included. Prerequisite: None

CONSVTY 5544 Advanced Clinical Experience
Music Therapy practicum in a clinical area. Includes review of literature of that clinical area and presentation of materials and techniques used with clients.

CONSVTY 5544 Advanced Clinical Experience
Music Therapy practicum in a clinical area. Includes review of literature of that clinical area and presentation of materials and techniques used with clients.

CONSVTY 5545 Seminar In Music Therapy
Discussion of current trends in music therapy.

CONSVTY 5545 Seminar In Music Therapy
Discussion of current trends in music therapy.

CONSVTY 5547 Opera History
The history of opera from its origins to the present. Prerequisite: Cons 5593 Intro to Research and Bibliography.

CONSVTY 5548 Opera Literature
A survey of opera literature, opera synopsis, and operatic stagecraft from 1600 to present. Prerequisite: Cons 5547 Opera History

CONSVTY 5551 History Of The Oratorio
A study of the oratorio from its beginning through contemporary works.

CONSVTY 5551 History Of The Oratorio
A study of the oratorio from its beginning through contemporary works.
CONSVTY 5554 Music Of The Medieval Era
Seminar in the music of the Middle Ages, from 800 to 1400. Prerequisite: CONSVTY 5593

CONSVTY 5554 Music Of The Medieval Era
Seminar in the music of the Middle Ages, from 800 to 1400. Prerequisite: CONSVTY 5593

CONSVTY 5555 Music Of The Renaissance
Seminar in the music of the Renaissance, from 1400 to 1600.

CONSVTY 5555 Music Of The Renaissance
Seminar in the music of the Renaissance, from 1400 to 1600.

CONSVTY 5556 Music Of The Baroque Era
Seminar in the music of the Baroque era, from 1600 to 1750. Prerequisite: CONSVTY 5593

CONSVTY 5556 Music Of The Baroque Era
Seminar in the music of the Baroque era, from 1600 to 1750. Prerequisite: CONSVTY 5593

CONSVTY 5557 Music Of The Classical Era
Seminar in the music of the Classical era, from 1750 to 1828. Prerequisite: CONSVTY 5593.

CONSVTY 5557 Music Of The Classical Era
Seminar in the music of the Classical era, from 1750 to 1828. Prerequisite: CONSVTY 5593.

CONSVTY 5558 Music Of The Romantic Era
Seminar in the music of the Romantic era from 1828 to 1914. Prerequisite: CONSVTY 5593.

CONSVTY 5558 Music Of The Romantic Era
Seminar in the music of the Romantic era from 1828 to 1914. Prerequisite: CONSVTY 5593.

CONSVTY 5559A Music Since 1900: 1900-1945
Seminar in music from 1900 to 1945. Prerequisite: CONSVTY 5593

CONSVTY 5559A Music Since 1900: 1900-1945
Seminar in music from 1900 to 1945. Prerequisite: CONSVTY 5593

CONSVTY 5559B Music Since 1900: 1945 To The Present
Seminar in music since 1945. Prerequisite: CONSVTY 5593

CONSVTY 5559B Music Since 1900: 1945 To The Present
Seminar in music since 1945. Prerequisite: CONSVTY 5593

CONSVTY 5560A Seminar: History Of Russian Vocal Music

CONSVTY 5560A Seminar: History Of Russian Vocal Music

CONSVTY 5560B Seminar: Nineteenth-Century Nationalism In Music

CONSVTY 5560B Seminar: Nineteenth-Century Nationalism In Music

CONSVTY 5560C Seminar: History Of American Music

CONSVTY 5560C Seminar: History Of American Music

CONSVTY 5560E Music and Film
This course will survey the use of music in cinema. It will include sections on music, technology, the film medium and the
various ways in which music adds to the cinematic experience. Prerequisite: Graduate student in the Conservatory. Offered: Every other spring.

**CONSVTY 5560F** Music of Asia  
This course surveys music in East Asia, from historical styles to traditional music to contemporary composition. Prerequisite: Graduate student in the Conservatory. Offered: Every other spring.

**CONSVTY 5560G** Music of Latin America  
Survey of selected musical traditions (sacred and secular, folk, traditional, and concert music) and representative composers of Central and South America. Prerequisites: Research and Bibliography in Music (CONSVTY 5593). Offered: Every other Spring.

**CONSVTY 5561** Advanced Music Literature  
Survey of the literature of the appropriate instrument. May be repeated for credit. Prerequisite: Consent of the instructor.

**CONSVTY 5564** History And Literature Of Chamber Music  
A study of masterpieces of chamber literature, vocal and instrumental, from various periods, through research, listening, and performance.

**CONSVTY 5566A** Advanced Vocal Literature: French Melodies  
In-depth study of the French melodies of Duparc, Faure, Debussy, Ravel, and Poulenc.

**CONSVTY 5566B** Advanced Vocal Literature: German Lieder  
In-depth study of the German lieder of Schubert, Schumann, Brahms, Wolf, Mahler, and Strauss.

**CONSVTY 5566C** Advanced Vocal Literature: Nationalistic Art Songs  
In-depth study of Nationalistic art songs of Russia, Scandinavia, Spain, and Middle Europe.

**CONSVTY 5570** Music Education In The College Environment  
A preparation for entering and functioning in the college Music Education teaching environment. Course serves as a review and examination of missions and philosophies of Music Education programs in U.S. colleges and universities and an analysis of job responsibilities for college Music Education instructors.

**CONSVTY 5574** History And Philosophy Of Music Education  
An overview of the history of music education in this country from the beginning of the seventeenth century to the present. Also includes a discussion of the major philosophical models used to justify the study of music.
includes a discussion of the major philosophical models used to justify the study of music.

**CONSVTY 5576** Professional Aspects Of College Teaching
Designed for graduate students planning a career in college teaching. Covers preparation of job application materials; presentation of a master class; interviews with a search committee and dean; faculty loads and evaluation procedures; tenure and rank, and relationships with students, colleagues and administrators.

**CONSVTY 5576** Professional Aspects Of College Teaching
Designed for graduate students planning a career in college teaching. Covers preparation of job application materials; presentation of a master class; interviews with a search committee and dean; faculty loads and evaluation procedures; tenure and rank, and relationships with students, colleagues and administrators.

**CONSVTY 5577** Advanced Vocal Diction
This course is designed to review and hone diction skills in Italian, French and German on the level of professional opera, recital and oratorio performance; the vocal literature is approached through the text with both reading and singing practice. It is limited to graduate vocal majors. Prerequisites: CONSVTY 171, CONSVTY 172 or its equivalent. Offered: Every other Winter

**CONSVTY 5577** Advanced Vocal Diction
This course is designed to review and hone diction skills in Italian, French and German on the level of professional opera, recital and oratorio performance; the vocal literature is approached through the text with both reading and singing practice. It is limited to graduate vocal majors. Prerequisites: CONSVTY 171, CONSVTY 172 or its equivalent. Offered: Every other Winter

**CONSVTY 5582A** Advanced Choral Conducting - Technique
An introductory study of the techniques of choral conducting. An overview of conducting topics, including score preparation, rehearsal techniques and performance problems. May be repeated for credit.

**CONSVTY 5582A** Advanced Choral Conducting - Technique
An introductory study of the techniques of choral conducting. An overview of conducting topics, including score preparation, rehearsal techniques and performance problems. May be repeated for credit.

**CONSVTY 5582B** Advanced Choral Conducting - Style
A study of conducting problems of music of the Renaissance, Baroque, Classic, Romantic and Twentieth century; further examination of performance problems associated with choral performances of madrigals, chamber music, a cappella works and music utilizing advanced compositional techniques. May be repeated for credit.

**CONSVTY 5582B** Advanced Choral Conducting - Style
A study of conducting problems of music of the Renaissance, Baroque, Classic, Romantic and Twentieth century; further examination of performance problems associated with choral performances of madrigals, chamber music, a cappella works and music utilizing advanced compositional techniques. May be repeated for credit.

**CONSVTY 5582C** Advanced Choral Conducting-Rehearsal Techniques
An advanced study of methods and rehearsal procedures in the development and organization of choral performance; includes concepts of tone quality, diction, programming, and development of communication skills. May be repeated for credit.

**CONSVTY 5583A** Advanced Instrumental Conducting
An introductory study of the techniques of instrumental conducting. An overview of conducting topics, including score preparation, rehearsal techniques and performance problems.

**CONSVTY 5583A** Advanced Instrumental Conducting
An introductory study of the techniques of instrumental conducting. An overview of conducting topics, including score preparation, rehearsal techniques and performance problems.

**CONSVTY 5583B** Advanced Instrumental Conducting - Orchestra
A further study of the techniques of instrumental conducting, including such topics as string techniques, performance practice, baton technique and the art of accompaniment. Prerequisite: CONSVTY 5583A. May be repeated for credit.

**CONSVTY 5583B** Advanced Instrumental Conducting - Orchestra
A further study of the techniques of instrumental conducting, including such topics as string techniques, performance practice, baton technique and the art of accompaniment. Prerequisite: CONSVTY 5583A. May be repeated for credit.

**CONSVTY 5583C** Advanced Instrumental Conducting - Band
A further study of the technique of band conducting, including such topics as wind/percussion techniques, performance practice,
CONSVTY 5583C Advanced Instrumental Conducting - Band
A further study of the technique of band conducting, including such topics as wind/percussion techniques, performance practice, baton technique, and contemporary wind chamber repertoire. Prerequisite: CONSVTY 5583A. May be repeated for credit.

CONSVTY 5586A Seminar In Orchestral Literature
Advanced study of a variety of styles, periods, and analytical procedures encountered by orchestral conductors. Content will vary from semester to semester. May be repeated for credit.

CONSVTY 5586B Seminar In Wind/Band Literature
Advanced study of a variety of styles, periods, and analytical procedures encountered by instrumental conductors of wind ensembles/bands. Content will vary from semester to semester. May be repeated for credit.

CONSVTY 5587 Seminar In Choral Literature
Each seminar is concerned with the conductor's viewpoint of a segment of the literature from the specified historical periods and styles, and explores the analysis, interpretation, historical context, and conducting problems of that literature. May be repeated for credit. Prerequisite: Consent from instructor.

CONSVTY 5589 Academic Portfolio
Creative synthesis of coursework or clinical experience resulting in original products such as research documents, pedagogical materials, technology applications, music compositions or arrangements, and musical improvisation applications. Portfolio item may not include materials used to meet admission requirements. May be repeated for credit.

CONSVTY 5589A Academic Portfolio II
Additional coursework or clinical experience resulting in original products. Open only to students concurrently enrolled in CONSVTY 5589.

CONSVTY 5590 Special Topics
A seminar in selected topics in various fields and idioms of music. May be repeated for credit when the topic varies. Prerequisite: Consent of the instructor.

CONSVTY 5590AC Special Topics

CONSVTY 5590AD Special Topics

CONSVTY 5590AD Special Topics
CONSVTY 5590BC Special Topics

CONSVTY 5590BJ Special Topics

CONSVTY 5590BJ Special Topics

CONSVTY 5590CA Special Topics

CONSVTY 5590CA Special Topics

CONSVTY 5590CE Special Topics

CONSVTY 5590CE Special Topics

CONSVTY 5590CF Special Topics

CONSVTY 5590CJ Special Topics

CONSVTY 5590CL Special Topics

CONSVTY 5590CT Special Topics

CONSVTY 5590CT Special Topics

CONSVTY 5590CY Special Topics

CONSVTY 5590DC Special Topics

CONSVTY 5590EC Special Topics

CONSVTY 5590FC Special Topics

CONSVTY 5590HA Special Topics

CONSVTY 5590HA Special Topics

CONSVTY 5590HE Special Topics

CONSVTY 5590HG Special Topics
CONSVTY 5590HG Special Topics
CONSVTY 5590HS Special Topics
CONSVTY 5590IN Special Topics
CONSVTY 5590IN Special Topics
CONSVTY 5590IT Special Topics
CONSVTY 5590LM Special Topics
CONSVTY 5590MB Special Topics
CONSVTY 5590MB Special Topics
CONSVTY 5590OL Special Topics
CONSVTY 5590OL Special Topics
CONSVTY 5590PA Special Topics
CONSVTY 5590PC Special Topics
CONSVTY 5590PO Special Topics
CONSVTY 5590PO Special Topics
CONSVTY 5590PP Special Topics
CONSVTY 5590PP Special Topics
CONSVTY 5590PS Special Topics
CONSVTY 5590SE Special Topics
CONSVTY 5590SV Special Topics
CONSVTY 5590SV Special Topics
CONSVTY 5590TF Special Topics

CONSVTY 5590TJ Special Topics

CONSVTY 5590TT Special Topics

CONSVTY 5591C Advanced Pedagogy I - Organ

CONSVTY 5591C Advanced Pedagogy I - Organ

CONSVTY 5591E Group Piano Pedagogy
Study of teaching techniques and materials related to teaching group piano at the college level. Course responsibilities include both observation and supervised teaching. Prerequisite: Consent of the instructor.

CONSVTY 5591G Pedagogy Of Music Theory I
Study of teaching techniques and materials combined with supervised teaching. Prerequisite: Consent of the instructor.

CONSVTY 5591G Pedagogy Of Music Theory I
Study of teaching techniques and materials combined with supervised teaching. Prerequisite: Consent of the instructor.

CONSVTY 5591H Advanced Pedagogy I - Voice

CONSVTY 5591H Advanced Pedagogy I - Voice

CONSVTY 5591J Advanced Pedagogy I-General
An overview of basic pedagogical practice including modes of instruction, feedback, reinforcement, and assessment. Students will review current literature in this area and develop a project related to their own teaching. Prerequisite: none

CONSVTY 5591J Advanced Pedagogy I-General
An overview of basic pedagogical practice including modes of instruction, feedback, reinforcement, and assessment. Students will review current literature in this area and develop a project related to their own teaching. Prerequisite: none

CONSVTY 5591K Pedagogy Of Music History
Techniques and materials related to teaching music history and music appreciation combined with supervised teaching. Prerequisite: Consent of instructor Offered: Every other Winter On Demand

CONSVTY 5591K Pedagogy Of Music History
Techniques and materials related to teaching music history and music appreciation combined with supervised teaching. Prerequisite: Consent of instructor Offered: Every other Winter On Demand

CONSVTY 5592C Advanced Pedagogy II - Organ

CONSVTY 5592C Advanced Pedagogy II - Organ

CONSVTY 5592E Advanced Piano Pedagogy
Study of teaching techniques and materials related to teaching applied piano at the collegiate level. Course responsibilities include both observation and supervised teaching. Prerequisites: Consent of the instructor.

CONSVTY 5592H Advanced Pedagogy II - Voice
CONSVTY 5592H Advanced Pedagogy II - Voice

CONSVTY 5593 Introduction To Research And Bibliography In Music
A survey of procedure in bibliography, research, and scholarly writing.

CONSVTY 5593 Introduction To Research And Bibliography In Music
A survey of procedure in bibliography, research, and scholarly writing.

CONSVTY 5594A Introduction To Descriptive And Experimental Research In Music
Introduction to basic descriptive and experimental methodologies in music. Includes a review of important literature in music, proposal writing, design, data analysis and scholarly writing styles used in graduate research.

CONSVTY 5594A Introduction To Descriptive And Experimental Research In Music
Introduction to basic descriptive and experimental methodologies in music. Includes a review of important literature in music, proposal writing, design, data analysis and scholarly writing styles used in graduate research.

CONSVTY 5596 Research In Teaching/Learning Music
A study of contemporary research in learning and teaching, its application to music, and the systematic observation and quantification of musical behavior. Prerequisite: None

CONSVTY 5596 Research In Teaching/Learning Music
A study of contemporary research in learning and teaching, its application to music, and the systematic observation and quantification of musical behavior. Prerequisite: None

CONSVTY 5597 Master's Recital
For voice students, a one hour weekly participation in Vocal Performance Seminar is required.

CONSVTY 5597 Master's Recital
For voice students, a one hour weekly participation in Vocal Performance Seminar is required.

CONSVTY 5597A Master's Conducting Performance

CONSVTY 5597A Master's Conducting Performance

CONSVTY 5597B Master's Recital II

CONSVTY 5597B Master's Recital II

CONSVTY 5597CE Master's Recital

CONSVTY 5597CE Master's Recital

CONSVTY 5598 Research Problems
Individual study with a member of the adjunct, associate or graduate faculty. Study will culminate in the writing of a formal paper. Research projects must be completed within two consecutive semesters, and filed in the Music Library. The paper must be in agreement with the Conservatory Library's Format Guidelines for Music Dissertations and Theses.

CONSVTY 5598 Research Problems
Individual study with a member of the adjunct, associate or graduate faculty. Study will culminate in the writing of a formal paper. Research projects must be completed within two consecutive semesters, and filed in the Music Library. The paper must be in agreement with the Conservatory Library's Format Guidelines for Music Dissertations and Theses.

CONSVTY 5598B Research Problems In Computer Languages And Music
Individual study with a member of the adjunct, associate, or graduate faculty. Study will culminate in the production of a project (computer program, CD-ROM, composition, or other document) that demonstrates skills in computer languages specifically
related to music. This course fulfills the computer language option of the foreign language for DMA students in composition.

**CONSVTY 5598B Research Problems In Computer Languages And Music**
Individual study with a member of the adjunct, associate, or graduate faculty. Study will culminate in the production of a project (computer program, CD-ROM, composition, or other document) that demonstrates skills in computer languages specifically related to music. This course fulfills the computer language option of the foreign language for DMA students in composition.

**CONSVTY 5599 Thesis**

**CONSVTY 5620 History Of Music Theory I**
A study of theoretical treatises, in the original languages and in translation, from earliest times through treatises on the thorough bass.

**CONSVTY 5621 History Of Music Theory II**
A study of theoretical treatises, in the original languages and in translation, from the 18th-20th Centuries.

**CONSVTY 563F Graduate Seminar Mozart**

**CONSVTY 563M Graduate Seminar Palestrina**

**CONSVTY 5674 Music Administration In Higher Education**
An historical survey of the music program in higher education, its philosophy, purpose and function; discussions of administrative problems of personnel, budget, public relations, recruitment, curriculum and development.

**CONSVTY 5693 Advanced Research And Bibliography In Music**
Advanced procedures in bibliography, research, and scholarly writing. Prerequisite: CONSVTY 5593 Offered: Every other Winter

**CONSVTY 5695 Practicum In Music Education**
Individual conference course requiring the development of a research paper in a special subject and designed to resolve a practical problem of special interest to the student. Conference.

**CONSVTY 5697 Doctoral Recital**
For voice students, a one hour weekly participation in Vocal Performance Seminar is required.

**CONSVTY 5697 Doctoral Recital**
For voice students, a one hour weekly participation in Vocal Performance Seminar is required.
CONSVTY 5697A Doctoral Lecture Recital

CONSVTY 5697A Doctoral Lecture Recital

CONSVTY 5697B Doctoral Conducting Performance

CONSVTY 5697B Doctoral Conducting Performance

CONSVTY 5697BP Doctoral Conducting Performance Paper
Individual study with the student's conducting teacher. Study will culminate in the writing of a formal paper addressing aspects of a doctoral conducting performance.

CONSVTY 5697BP Doctoral Conducting Performance Paper
Individual study with the student's conducting teacher. Study will culminate in the writing of a formal paper addressing aspects of a doctoral conducting performance.

CONSVTY 5697C Doctoral Recital II

CONSVTY 5697C Doctoral Recital II

CONSVTY 5697CP Doctoral Recital Paper II
Additional individual study with the student's applied teacher. Study will culminate in the writing of another formal paper addressing aspects of a doctoral recital. Open only to students concurrently enrolled in CONSVTY 697P.

CONSVTY 5697CP Doctoral Recital Paper II
Additional individual study with the student's applied teacher. Study will culminate in the writing of another formal paper addressing aspects of a doctoral recital. Open only to students concurrently enrolled in CONSVTY 697P.

CONSVTY 5697D Doctoral Conducting Performance II

CONSVTY 5697D Doctoral Conducting Performance II

CONSVTY 5697DP Doctoral Conducting Performance Paper
Additional individual study with the student's conducting teacher. Study will culminate in the writing of another formal paper addressing aspects of a doctoral conducting performance. Open only to students concurrently enrolled in CONSVTY 5697BP.

CONSVTY 5697DP Doctoral Conducting Performance Paper
Additional individual study with the student's conducting teacher. Study will culminate in the writing of another formal paper addressing aspects of a doctoral conducting performance. Open only to students concurrently enrolled in CONSVTY 5697BP.

CONSVTY 5697P Doctoral Recital Paper
Individual study with the student's applied teacher. Study will culminate in the writing of a formal paper addressing aspects of a doctoral recital.

CONSVTY 5697P Doctoral Recital Paper
Individual study with the student's applied teacher. Study will culminate in the writing of a formal paper addressing aspects of a doctoral recital.

CONSVTY 5698 Research Problems
Individual study with a member of the adjunct, associate, graduate or doctoral faculty. Study will culminate in the writing of a scholarly paper.

CONSVTY 5698 Research Problems
Individual study with a member of the adjunct, associate, graduate or doctoral faculty. Study will culminate in the writing of a scholarly paper.
CONSVTY 5698A Doctoral Research Problems II
Additional study with a member of the adjunct, associate, graduate or doctoral faculty. Study will culminate in the writing of another scholarly paper. Open only to students concurrently enrolled in CONSVTY 5698.

CONSVTY 5698B Doctoral Music Product
Individual study with a member of the adjunct, associate, graduate, or doctoral faculty. Study will culminate in the writing of a creative, original composition, arrangement or edition of music.

CONSVTY 5699 Dissertation Research
BASSOON 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

BASSOON 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

BASSOON 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

BASSOON 5501 Graduate Bassoon - Masters Performance

BASSOON 5501 Graduate Bassoon - Masters Performance

BASSOON 5601 Graduate Bassoon - Doctoral Performance

BASSOON 5601 Graduate Bassoon - Doctoral Performance

Cello (CELLO)

CELLO 5500A Graduate Cello - Secondary

CELLO 5500A Graduate Cello - Secondary

CELLO 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

CELLO 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

CELLO 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

CELLO 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

CELLO 5501 Graduate Cello - Masters Performance

CELLO 5501 Graduate Cello - Masters Performance

CELLO 5601 Graduate Cello - Doctoral Performance

CELLO 5601 Graduate Cello - Doctoral Performance
Clarinet (CLARINET)
CLARINET 5500A Graduate Clarinet-Secondary

CLARINET 5500A Graduate Clarinet-Secondary

CLARINET 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

CLARINET 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

CLARINET 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor. Offered: Every Fall/ Every Winter

Euphonium (EUPHNM)
EUPHNM 5500A Graduate Euphonium-Secondary

EUPHNM 5500A Graduate Euphonium-Secondary

EUPHNM 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

EUPHNM 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

EUPHNM 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in
addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**EUPHNM 5500C** Applied Study Of A Second Instrument
One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**EUPHNM 5501** Graduate Euphonium - Master's Performance

**EUPHNM 5601** Graduate Euphonium - Doctoral Performance

Flute (FLUTE)

**FLUTE 5500A** Graduate Flute-Secondary

**FLUTE 5500B** Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

**FLUTE 5500C** Applied Study Of A Second Instrument
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. Consent of the instructor required.

**FLUTE 5500JC** Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**FLUTE 5501** Graduate Flute - Masters Performance

**FLUTE 5601** Graduate Flute - Doctoral Performance
FLUTE 5601 Graduate Flute - Doctoral Performance

Guitar (GUITAR)
GUITAR 5500A Graduate Guitar-Secondary

GUITAR 5500A Graduate Guitar-Secondary

GUITAR 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

GUITAR 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

GUITAR 5500C Applied Study Of A Second Instrument
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

GUITAR 5500C Applied Study Of A Second Instrument
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

GUITAR 5500JA Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

GUITAR 5500JA Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

GUITAR 5500JB Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

GUITAR 5500JB Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

GUITAR 5500JC Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

GUITAR 5500JC Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

GUITAR 5501 Graduate Guitar - Masters Performance

GUITAR 5501 Graduate Guitar - Masters Performance
GUITAR 5601 Graduate Guitar - Doctoral Performance

GUITAR 5601 Graduate Guitar - Doctoral Performance

Harp (HARP)
HARP 5501 Graduate Harp - Masters Performance

HARP 5501 Graduate Harp - Masters Performance

HARP 5601 Graduate Harp - Doctoral Performance

HARP 5601 Graduate Harp - Doctoral Performance

Harpsichord (HRPCHD)
HRPCHD 5500A Graduate Harpsichord-Secondary

HRPCHD 5500A Graduate Harpsichord-Secondary

HRPCHD 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

HRPCHD 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

HRPCHD 5500C Applied Study Of A Second Instrument
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

HRPCHD 5500C Applied Study Of A Second Instrument
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

Horn (HORN)
HORN 500PS Special Topics Umkc

HORN 501S Graduate Section Horn

HORN 5500A Graduate Horn-Secondary

HORN 5500A Graduate Horn-Secondary

HORN 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

HORN 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only
may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

**HORN 5500C Applied Study Of A Second Instrument**
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.  

**HORN 5500C Applied Study Of A Second Instrument**
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.  

**HORN 5501 Graduate French Horn - Masters Performance**

**HORN 5501 Graduate French Horn - Masters Performance**

**HORN 5601 Graduate Horn - Doctoral Performance**

**HORN 5601 Graduate Horn - Doctoral Performance**

**Oboe (OBOE)**

**OBOE 500PS Special Topics Umkc**

**OBOE 5500A Graduate Oboe-Secondary**

**OBOE 5500A Graduate Oboe-Secondary**

**OBOE 5500B Special Applied Studies**
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.  

**OBOE 5500B Special Applied Studies**
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.  

**OBOE 5500C Applied Study Of A Second Instrument**
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.  

**OBOE 5500C Applied Study Of A Second Instrument**
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.  

**OBOE 5501 Graduate Oboe-Master Performance**

**OBOE 5501 Graduate Oboe-Master Performance**

**OBOE 5601 Graduate Oboe - Doctoral Performance**

**OBOE 5601 Graduate Oboe - Doctoral Performance**
Organ (ORGAN)

ORGAN 5500A Graduate Organ-Secondary

ORGAN 5500A Graduate Organ-Secondary

ORGAN 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

ORGAN 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

ORGAN 5500C Applied Study Of A Second Instrument
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

ORGAN 5501 Graduate Organ - Masters Performance

ORGAN 5501 Graduate Organ - Masters Performance

ORGAN 5601 Graduate Organ - Doctoral Performance

ORGAN 5601 Graduate Organ - Doctoral Performance

ORGAN 600PS Special Topics Umkc

Percussion (PERCSN)

PERCSN 5500A Graduate Percussion-Secondary

PERCSN 5500A Graduate Percussion-Secondary

PERCSN 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

PERCSN 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

PERCSN 5500C Applied Study Of A Second Instrument
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

PERCSN 5500C Applied Study Of A Second Instrument
One Half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.
PERCSN 5500JA Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

PERCSN 5500JA Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

PERCSN 5500JB Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor required. Prerequisite: Graduate status & permission of instructor Offered: Every Fall/Every Winter

PERCSN 5500JB Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor required. Prerequisite: Graduate status & permission of instructor Offered: Every Fall/Every Winter

PERCSN 5500JC Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

PERCSN 5500JC Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

PERCSN 5501 Graduate Percussion - Masters Performance

PERCSN 5501 Graduate Percussion - Masters Performance

PERCSN 5601 Graduate Percussion - Doctoral Performance

PERCSN 5601 Graduate Percussion - Doctoral Performance

Piano (PIANO)
PIANO 5500A Graduate Piano-Secondary

PIANO 5500A Graduate Piano-Secondary

PIANO 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

PIANO 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

PIANO 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

PIANO 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in
addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**PIANO 5500JA** Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**PIANO 5500JA** Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**PIANO 5500JB** Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**PIANO 5500JB** Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**PIANO 5500JC** Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**PIANO 5500JC** Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**PIANO 5501** Graduate Piano - Masters Performance

**PIANO 5501** Graduate Piano - Masters Performance

**PIANO 5601** Graduate Piano - Doctoral Performance

**PIANO 5601** Graduate Piano - Doctoral Performance

**PIANO 700PS** Special Topics Umkc

**PIANO 900PS** Special Topics Umkc

**Saxophone (SAXOPH)**
**SAXOPH 5500A** Graduate Saxophone-Secondary

**SAXOPH 5500A** Graduate Saxophone-Secondary

**SAXOPH 5500B** Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

**SAXOPH 5500B** Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments
only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

**SAXOPH 5500C** Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**SAXOPH 5500C** Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**SAXOPH 5500JA** Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**SAXOPH 5500JA** Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**SAXOPH 5500JB** Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

**SAXOPH 5500JB** Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/Every Winter

**SAXOPH 5500JC** Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**SAXOPH 5500JC** Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**SAXOPH 5501** Graduate Saxophone - Masters Performance

**SAXOPH 5501** Graduate Saxophone - Masters Performance

**SAXOPH 5601** Graduate Saxophone - Doctoral Performance

**SAXOPH 5601** Graduate Saxophone - Doctoral Performance

**String Bass (STR-BASS)**
**STR-BASS 5500A** Graduate String Bass-Secondary

**STR-BASS 5500A** Graduate String Bass-Secondary

**STR-BASS 5500B** Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.
STR-BASS 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

STR-BASS 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

STR-BASS 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

STR-BASS 5500JA Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & Permission of instructor. Offered: Every Fall/ Every Winter

STR-BASS 5500JA Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & Permission of instructor. Offered: Every Fall/ Every Winter

STR-BASS 5500JB Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

STR-BASS 5500JB Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

STR-BASS 5500JC Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instrutor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

STR-BASS 5500JC Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instrutor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

STR-BASS 5501 Graduate String Bass - Masters Performance

STR-BASS 5501 Graduate String Bass - Masters Performance

STR-BASS 5601 Graduate String Bass - Doctoral Performance

STR-BASS 5601 Graduate String Bass - Doctoral Performance

Trombone (TROMB)
TROMB 5500A Graduate Trombone-Secondary

TROMB 5500A Graduate Trombone-Secondary

TROMB 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments
only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

**TROMB 5500B** Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

**TROMB 5500C** Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**TROMB 5500C** Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

**TROMB 5500JA** Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**TROMB 5500JB** Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**TROMB 5500JC** Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz study in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

**TROMB 5501** Graduate Trombone - Masters Performance

**TROMB 5501** Graduate Trombone - Masters Performance

**TROMB 5601** Graduate Trombone - Doctoral Performance

**TROMB 5601** Graduate Trombone - Doctoral Performance

**Trumpet (TRUMPET)**
**TRUMPET 5500A** Graduate Trumpet-Secondary

**TRUMPET 5500A** Graduate Trumpet-Secondary
TRUMPET 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

TRUMPET 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

TRUMPET 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

TRUMPET 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

TRUMPET 5500JA Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

TRUMPET 5500JA Graduate Applied Jazz Studies
One hour lesson weekly. Consent of instructor and a jury examination are required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

TRUMPET 5500JB Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

TRUMPET 5500JB Special Applied Jazz Studies
One hour lesson weekly. This course is for pedagogical or review purposes. A jury for comments only may be held at the discretion of the faculty. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

TRUMPET 5500JC Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

TRUMPET 5500JC Applied Jazz Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied jazz in an area other than, and in addition to, their primary performance study. Consent of instructor is required. Prerequisites: Graduate status & permission of instructor Offered: Every Fall/ Every Winter

TRUMPET 5501 Graduate Trumpet - Masters Performance

TRUMPET 5501 Graduate Trumpet - Masters Performance

TRUMPET 5601 Graduate Trumpet - Doctoral Performance

TRUMPET 5601 Graduate Trumpet - Doctoral Performance

TRUMPET 600PS Special Topics Umkc
Tuba (TUBA)

TUBA 5500A Graduate Tuba-Secondary

TUBA 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

TUBA 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

TUBA 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

TUBA 5501 Graduate Tuba - Masters Performance

TUBA 5601 Graduate Tuba - Doctoral Performance

TUBA 5601 Graduate Tuba - Doctoral Performance

Viola (VIOLA)

VIOLA 5500A Graduate Viola-Secondary

VIOLA 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

VIOLA 5500B Special Applied Studies
One-hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

VIOLA 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

VIOLA 5501 Graduate Viola - Masters Performance
VIOLA 5501 Graduate Viola - Masters Performance

VIOLA 5601 Graduate Viola - Doctoral Performance

VIOLA 5601 Graduate Viola - Doctoral Performance

Violin (VIOLIN)
VIOLIN 500PS Special Topics Umkc

VIOLIN 5500A Graduate Violin-Secondary

VIOLIN 5500A Graduate Violin-Secondary

VIOLIN 5500B Special Applied Studies
One hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

VIOLIN 5500B Special Applied Studies
One hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

VIOLIN 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

VIOLIN 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

VIOLIN 5501 Graduate Violin - Masters Performance

VIOLIN 5501 Graduate Violin - Masters Performance

VIOLIN 5601 Graduate Violin - Doctoral Performance

VIOLIN 5601 Graduate Violin - Doctoral Performance

Voice (VOICE)
VOICE 500PS Special Topics Umkc

VOICE 5500A Graduate Voice-Secondary

VOICE 5500A Graduate Voice-Secondary

VOICE 5500B Special Applied Studies
One hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.
VOICE 5500B Special Applied Studies
One hour lesson weekly. This course is for pedagogical or review purposes. An audition is required, and a jury for comments only may be held at the discretion of the division. May be repeated for credit. Consent of the instructor required.

VOICE 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

VOICE 5500C Applied Study Of A Second Instrument
One half-hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

VOICE 5501 Graduate Voice - Masters Performance
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 5501 Graduate Voice - Masters Performance
One hour weekly participation in Vocal Performance Seminar is required.

VOICE 5501 Graduate Voice - Masters Performance
One hour weekly participation in Vocal Performance is required.

VOICE 5601 Graduate Voice - Doctoral Performance
One hour weekly participation in Vocal Performance is required.

VOICE 5601 Graduate Voice - Doctoral Performance
One hour weekly participation in Vocal Performance is required.

VOICE 600PS Special Topics Umkc

School of Dentistry
School of Dentistry Graduate Courses

Dental Hygiene (DENT-HYG)
DENT-HYG 5500 Introduction To Educational Methodology
Through individualized instruction, the student will have an introduction to educational concepts in preparation for student teaching, community presentations and teaching in any venue. Topics included are goals and objectives, curriculum and course design, development of course syllabi, teaching/learning strategies, use of technology in teaching, basic principles of testing, micro-teaching demonstration, and student and self-evaluation. Offered: Fall Semester on-line only.

DENT-HYG 5500 Introduction To Educational Methodology
Through individualized instruction, the student will have an introduction to educational concepts in preparation for student teaching, community presentations and teaching in any venue. Topics included are goals and objectives, curriculum and course design, development of course syllabi, teaching/learning strategies, use of technology in teaching, basic principles of testing, micro-teaching demonstration, and student and self-evaluation. Offered: Fall Semester on-line only.

DENT-HYG 5510 Student Teaching And Conference I
Student teaching experience in classroom areas as selected by the student under the direction of a supervising professor. The student develops behavioral course objectives, test and examination items, classroom presentations, and prepares student evaluations in the selected classroom teaching areas. The student may select teaching assignments in one of the developed externship student teaching programs. Conferences will be held in conjunction with the course. Offered: Every semester
Prerequisite: DENT-HYG 5500 and DENT-HYG 4040

DENT-HYG 5510 Student Teaching And Conference I
Student teaching experience in classroom areas as selected by the student under the direction of a supervising professor. The student develops behavioral course objectives, test and examination items, classroom presentations, and prepares student evaluations in the selected classroom teaching areas. The student may select teaching assignments in one of the developed externship student teaching programs. Conferences will be held in conjunction with the course. Offered: Every semester
Prerequisite: DENT-HYG 5500 and DENT-HYG 4040

DENT-HYG 5512 Student Teaching And Conference II
This course is designed to provide the graduate dental hygiene student with additional experience in classroom teaching. Student teaching experiences will be selected by the student under the direction of and in conference with a supervising professor.
DENT-HYG 5512 Student Teaching And Conference II
This course is designed to provide the graduate dental hygiene student with additional experience in classroom teaching. Student teaching experiences will be selected by the student under the direction of and in conference with a supervising professor. Offered: Every semester

DENT-HYG 5516 Special Issues In Higher Education For Health Professional
This course is designed to introduce the student to issues encountered in higher education. Weekly classroom sessions will address subjects such as: grantsmanship, accreditation, promotion and tenure, faculty governance, outcomes assessment, use of theory to guide practice, and case-based learning. Offered: Spring Semester on-line only.

DENT-HYG 5516 Special Issues In Higher Education For Health Professional
This course is designed to introduce the student to issues encountered in higher education. Weekly classroom sessions will address subjects such as: grantsmanship, accreditation, promotion and tenure, faculty governance, outcomes assessment, use of theory to guide practice, and case-based learning. Offered: Spring Semester on-line only.

DENT-HYG 5520 Independent Study In Hospital Dentistry
An introduction to the role of the dental hygienist in one or more clinical settings within the hospital environment. The settings may include the operating room, surgical wards, prenatal clinics, post-partum area, medical docent teams, medical clinics, specialty clinics and other areas of special interest. Specific student experiences are to be arranged in consultation with and under the direction of the hospital dental hygiene faculty member. Offered: TBA

DENT-HYG 5520 Independent Study In Hospital Dentistry
An introduction to the role of the dental hygienist in one or more clinical settings within the hospital environment. The settings may include the operating room, surgical wards, prenatal clinics, post-partum area, medical docent teams, medical clinics, specialty clinics and other areas of special interest. Specific student experiences are to be arranged in consultation with and under the direction of the hospital dental hygiene faculty member. Offered: TBA

DENT-HYG 5530 Clinical Instruction And Conference I
Students will actively participate in clinical instruction under the supervision of a dental hygiene faculty member. Topics relative to clinical teaching will be discussed in weekly seminars. Students will be encouraged to apply knowledge gained in DHGR 5500 (Intro to Educational Methods) during clinical instructional experiences. Additionally the student must participate in at least 1/2 day of clinic per week to equal credit hour of course work. Offered: Fall Semester on-line only.

DENT-HYG 5530 Clinical Instruction And Conference I
Students will actively participate in clinical instruction under the supervision of a dental hygiene faculty member. Topics relative to clinical teaching will be discussed in weekly seminars. Students will be encouraged to apply knowledge gained in DHGR 5500 (Intro to Educational Methods) during clinical instructional experiences. Additionally the student must participate in at least 1/2 day of clinic per week to equal credit hour of course work. Offered: Fall Semester on-line only.

DENT-HYG 5532 Clinical Instruction And Conference II
This course is a continuation of DHGR 5530 Dental Hygiene Clinical Instruction I. Under the supervision of the dental hygiene faculty, the student will continue to develop skills as a dental hygiene clinical instructor. Offered every semester on-line only. Prerequisite: DENT-HYG 5530

DENT-HYG 5532 Clinical Instruction And Conference II
This course is a continuation of DHGR 5530 Dental Hygiene Clinical Instruction I. Under the supervision of the dental hygiene faculty, the student will continue to develop skills as a dental hygiene clinical instructor. Offered every semester on-line only. Prerequisite: DENT-HYG 5530

DENT-HYG 5553 Evidence Based Decision Making in the Clinical Practice of Dental Hygiene
This course is designed for the graduate and degree completion dental hygiene student and will expand on the student's basic knowledge of the dental hygiene process of care. Utilization of evidence based decision making skills will be explored in an effort to incorporate current scientific literature, personal clinical experience and patient preferences as it relates to the delivery of comprehensive patient care. Skills taught in this course will enhance background knowledge related to the dental hygiene process of care and help to foster an attitude of critical analysis and life-long learning.

DENT-HYG 5560 Practicum In Clinical Supervision And Management
Practical experience in functioning as a Clinic Supervisor. Clinical managerial projects will be assigned according to students' interests and goals by agreement between student and instructor. Offered: TBA
DENT-HYG 5560 Practicum In Clinical Supervision And Management
Practical experience in functioning as a Clinic Supervisor. Clinical managerial projects will be assigned according to students' interests and goals by agreement between student and instructor. Offered: TBA

DENT-HYG 5565 Advanced Special Patient Care Practicum I
This course is designed to familiarize the student with general principles of cancer therapy and the role of the dental team in the multidisciplinary care of patients undergoing oncology treatments. Special emphasis will be placed on the treatment of the patient with head and neck cancer, and preventive and palliative dental interventions for control of the orl complications associated with all cancer therapies. Cancer prevention issues and the psychosocial and economic impact of cancer diagnosis will also be discussed. Offered: TBA

DENT-HYG 5565 Advanced Special Patient Care Practicum I
This course is designed to familiarize the student with general principles of cancer therapy and the role of the dental team in the multidisciplinary care of patients undergoing oncology treatments. Special emphasis will be placed on the treatment of the patient with head and neck cancer, and preventive and palliative dental interventions for control of the orl complications associated with all cancer therapies. Cancer prevention issues and the psychosocial and economic impact of cancer diagnosis will also be discussed. Offered: TBA

DENT-HYG 5566 Advanced Special Patient Care Practicum II
This course will provide the graduate dental hygiene student with the opportunity to explore the relationship of an oncology dental program to medical health care facilities. Offered: TBA

DENT-HYG 5566 Advanced Special Patient Care Practicum II
This course will provide the graduate dental hygiene student with the opportunity to explore the relationship of an oncology dental program to medical health care facilities. Offered: TBA

DENT-HYG 5570 Administrative Practicum
Practical experience in administration. The student selects areas of responsibility based on their goals and interests in administration. Possible areas of involvement are: recruitment, admissions, curriculum and course development, course scheduling, grant and report writing and student advising. Offered: TBA

DENT-HYG 5590 Independent Study
Independent study of a particular topic or area of interest to the student in dental hygiene/dentistry and/or higher education. Offered: TBA

DENT-HYG 5595 Writing In Science
This seminar course is designed to provide advanced education students in the health professions the skills necessary to write and communicate in science. Course activities and topics include: critical analysis of the literature, literature summary tables, structure and organization of documents, style and usage, drafting, revising and finishing. Participants will practice the craft of scientific writing not only as the writer but also as the reader providing correction and reorganization where appropriate. While this course examines many writing tasks, exercise culminate with the development of a research protocol or scientific article. Offered: Winter Semester, on-line only

DENT-HYG 5595 Writing In Science
This seminar course is designed to provide advanced education students in the health professions the skills necessary to write and communicate in science. Course activities and topics include: critical analysis of the literature, literature summary tables, structure and organization of documents, style and usage, drafting, revising and finishing. Participants will practice the craft of scientific writing not only as the writer but also as the reader providing correction and reorganization where appropriate. While this course examines many writing tasks, exercise culminate with the development of a research protocol or scientific article. Offered: Winter Semester, on-line only

DENT-HYG 5599 Research And Thesis
This course is designed to support the research process from protocol development through data collection and report of results. Research committee chairperson typically serves as the course director.

DENT-HYG 5599 Research And Thesis
This course is designed to support the research process from protocol development through data collection and report of results. Research committee chairperson typically serves as the course director.
Dentistry - Biological Sciences (BIO-SCI)

BIO-SCI 5700 Biomaterials Teaching
Through this course, students will acquire teaching experience in graduate and undergraduate biomaterials.

BIO-SCI 5700 Biomaterials Teaching
Through this course, students will acquire teaching experience in graduate and undergraduate biomaterials.

BIO-SCI 5706 Growth And Development I
A course designed to teach the general principles of normal and abnormal physical, psychological and social growth and development of children and adolescents. The growth and development of the craniofacial structures is emphasized. The diagnosis of malocclusions is stressed. Consideration is given to possible approaches to their treatment.

BIO-SCI 5706 Growth And Development I
A course designed to teach the general principles of normal and abnormal physical, psychological and social growth and development of children and adolescents. The growth and development of the craniofacial structures is emphasized. The diagnosis of malocclusions is stressed. Consideration is given to possible approaches to their treatment.

BIO-SCI 5707 Growth And Development II
A comprehensive study of the genetical aspects of growth and development with special analysis of the molecular control of these processes by both intrinsic and epigenetic factors. Prerequisite: Growth and Development I.

BIO-SCI 5707 Growth And Development II
A comprehensive study of the genetical aspects of growth and development with special analysis of the molecular control of these processes by both intrinsic and epigenetic factors. Prerequisite: Growth and Development I.

BIO-SCI 5710 Genetics And Biochemistry Of Cranial Facial Biology
Biochemistry of oral structures and the effect of oral diseases on these structures. This course may not be used to satisfy Cell Biology and Biophysics or Molecular Biology and Biochemistry discipline-specific requirements for the Interdisciplinary Ph.D. programs.

BIO-SCI 5710 Genetics And Biochemistry Of Cranial Facial Biology
Biochemistry of oral structures and the effect of oral diseases on these structures. This course may not be used to satisfy Cell Biology and Biophysics or Molecular Biology and Biochemistry discipline-specific requirements for the Interdisciplinary Ph.D. programs.

BIO-SCI 5739 Biomaterials For The Dental Specialist
Discussion of basic biomaterials principles and terminology including explanation of physical, mechanical and surface chemical properties, metallurgy, polymer chemistry, ceramics and composites. Clinical examples of how these principles apply to Prosthodontics, Endodontics and Orthodontics will be presented. Students cannot take both this course and BIO-SCI 5742 for credit.

BIO-SCI 5739 Biomaterials For The Dental Specialist
Discussion of basic biomaterials principles and terminology including explanation of physical, mechanical and surface chemical properties, metallurgy, polymer chemistry, ceramics and composites. Clinical examples of how these principles apply to Prosthodontics, Endodontics and Orthodontics will be presented. Students cannot take both this course and BIO-SCI 5742 for credit.

BIO-SCI 5740 Oral Pathology I
A study of the clinical and histopathologic features of oral diseases, including inflammatory, degenerative, metabolic, and neoplastic diseases and developmental disturbances.

BIO-SCI 5740 Oral Pathology I
A study of the clinical and histopathologic features of oral diseases, including inflammatory, degenerative, metabolic, and neoplastic diseases and developmental disturbances.

BIO-SCI 5742 Biomaterials For The Restorative And General Dentist
A thorough discussion of basic biomaterials principles and how they apply to the practice of general and restorative dentistry. Students cannot take both this course and BIO-SCI 5739 for credit.

BIO-SCI 5742 Biomaterials For The Restorative And General Dentist
A thorough discussion of basic biomaterials principles and how they apply to the practice of general and restorative dentistry. Students cannot take both this course and BIO-SCI 5739 for credit.

BIO-SCI 5743 Advanced Seminar In Dental Biomaterials
The use and behavior of dental biomaterials in Pediatric Dentistry, Prosthodontics, Orthodontics, and Restorative Dentistry will be discussed in depth. Current basic and clinical literature related to these areas will be discussed and research information to improve dental practice will be presented. Prerequisite: BIO-SCI 5739 or BIO-SCI 5742 and permission of instructor.

BIO-SCI 5743 Advanced Seminar In Dental Biomaterials
The use and behavior of dental biomaterials in Pediatric Dentistry, Prosthodontics, Orthodontics, and Restorative Dentistry will be discussed in depth. Current basic and clinical literature related to these areas will be discussed and research information to improve dental practice will be presented. Prerequisite: BIO-SCI 5739 or BIO-SCI 5742 and permission of instructor.

BIO-SCI 5747 Research Instrumentation Used In Dental Biomaterials
A discussion and laboratory use of instrumentation employed in dental biomaterials research. Practical hands-on experience will include calibration and use of specific research equipment including the Instron, metallurgical mounting and polishing
equipment, measuring microscope, metallograph, and contact angle goniometer. Prerequisite: Permission of instructor.

**BIO-SCI 5747 Research Instrumentation Used In Dental Biomaterials**
A discussion and laboratory use of instrumentation employed in dental biomaterials research. Practical hands-on experience will include calibration and use of specific research equipment including the Instron, metallurgical mounting and polishing equipment, measuring microscope, metallograph, and contact angle goniometer. Prerequisite: Permission of instructor.

**BIO-SCI 5749 Special Problems In Oral Pathology**
The student will review surgical cases and literature pertinent to those cases under the guidance of faculty members of the department.

**BIO-SCI 5749 Special Problems In Oral Pathology**
The student will review surgical cases and literature pertinent to those cases under the guidance of faculty members of the department.

**BIO-SCI 5750 Special Problems In Dental Biomaterials**
The student will select or be assigned a special research problem including appropriate literature reviews of a special topic in dental biomaterials. Emphasis will be placed on the correlation between basic and clinical research. The design and conduct of clinical research will be discussed. Prerequisite: Permission of instructor.

**BIO-SCI 5750 Special Problems In Dental Biomaterials**
The student will select or be assigned a special research problem including appropriate literature reviews of a special topic in dental biomaterials. Emphasis will be placed on the correlation between basic and clinical research. The design and conduct of clinical research will be discussed. Prerequisite: Permission of instructor.

**BIO-SCI 5751 Elements Of The Scientific Method**
Elements Of The Scientific Method-001 (MS Students) - Through individualized instruction with thesis committee chair, student will conduct a literature review in preparation for developing a research question leading to the thesis research proposal. Elements Of The Scientific Method-002 (Ph.D. Students) - Students will select and rotate through a minimum of four laboratories in the Department of Oral Biology conducting a short research project in each. At the end of the semester, a report is required reviewing the research project and the instrumentation in each laboratory. Students are also required to attend the weekly Department of Oral Biology Seminar Series and the monthly Professional Development Seminar Series. Research presentations cover a variety of biological, engineering and psychological disciplines relevant to oral science education and the oral health care profession. Presentations will be by faculty, students, and invited guest lecturers.

**BIO-SCI 5752 Research Methods In Oral Biology**
BIO-SCI 5752-001 Research Methods In Oral Biology- MS students- Student will write the thesis research proposal in consultation with committee chair and members plus obtain appropriate IRB and/or IACUC approvals. For the MS degree qualifying exam, the student will write the research proposal, present the research proposal at a committee meeting, and answer related questions. Following the successful completion of the qualifying exam, the research proposal is the basis of the MS thesis project. BIO-SCI 5752-002 Research Methods In Oral Biology- Ph.D students- As the student identifies a research focus for the dissertation project, they will begin reviewing the literature and relevant instrumentation in conjunction with a selected advisor.

**BIO-SCI 5759 Special Problems In Pharmacology**
Pharmacologic and therapeutic problems of special interest in the practice of dentistry.

**BIO-SCI 5759 Special Problems In Pharmacology**
Pharmacologic and therapeutic problems of special interest in the practice of dentistry.

**BIO-SCI 5760 Physiology of Oral Mineralized Tissues**
A study of the physiology of the oral hard tissues with emphasis on the mechanisms of the growth, remodeling, and healing of maxillomandibular bones and on the mechanism of dentinogenesis. This course may not be used to satisfy Cell Biology and Biophysics or Molecular Biology and Biochemistry discipline-specific requirements for the Interdisciplinary Ph.D. program.

**BIO-SCI 5780 Teaching Of Dentistry**
A consideration of the problems of teaching in dental schools. Each department of the School of Dentistry will report on its teaching methods. The student will observe lectures and laboratory teaching in each department.

**BIO-SCI 5780 Teaching Of Dentistry**
A consideration of the problems of teaching in dental schools. Each department of the School of Dentistry will report on its teaching methods. The student will observe lectures and laboratory teaching in each department.
**BIO-SCI 5781 Clinical Student Teaching I**
This course is designed to give the student teaching experience in conducting and supervising predoctoral students in their clinical practice. Diagnosis and treatment planning in each specialty field will be emphasized.

**BIO-SCI 5781 Clinical Student Teaching I**
This course is designed to give the student teaching experience in conducting and supervising predoctoral students in their clinical practice. Diagnosis and treatment planning in each specialty field will be emphasized.

**BIO-SCI 5782 Clinical Student Teaching II**
A continuation of BIO-SCI 5781.

**BIO-SCI 5782 Clinical Student Teaching II**
A continuation of BIO-SCI 5781.

**BIO-SCI 5790 Directed Research In Oral Biology**
Student utilizes beginning research skills to design, conduct and report an individual research project under the direction of the faculty.

**BIO-SCI 5790 Directed Research In Oral Biology**
Student utilizes beginning research skills to design, conduct and report an individual research project under the direction of the faculty.

**BIO-SCI 5799 Research And Thesis**
The satisfactory completion of an original research project. Results of the research and critical review of the pertinent literature are incorporated into a thesis. Credit is awarded after the student's thesis is successfully defended and accepted by the School of Graduate Studies.

**BIO-SCI 5799 Research And Thesis**
The satisfactory completion of an original research project. Results of the research and critical review of the pertinent literature are incorporated into a thesis. Credit is awarded after the student's thesis is successfully defended and accepted by the School of Graduate Studies.

**BIO-SCI 5801 Readings In Immunology**
A detailed study of special topics in immunology. Specific topics to be arranged with the instructor. This course may be repeated by doctoral students for a maximum of 3 credit hours. Prerequisite: LIFE-SCI 435.

**BIO-SCI 5801 Readings In Immunology**
A detailed study of special topics in immunology. Specific topics to be arranged with the instructor. This course may be repeated by doctoral students for a maximum of 3 credit hours. Prerequisite: LIFE-SCI 435.

**BIO-SCI 5802 Immunopathology**
A detailed study of selected topics in immunopathology with emphasis on physicochemical barriers such as cutaneous and mucosal immune systems. Prerequisite: LIFE-SCI 435.

**BIO-SCI 5802 Immunopathology**
A detailed study of selected topics in immunopathology with emphasis on physicochemical barriers such as cutaneous and mucosal immune systems. Prerequisite: LIFE-SCI 435.

**BIO-SCI 5805 Molecular Biology Of Oral Microflora**
Lecture and discussion. The course will provide an overview of the ecology of oral microbial flora and its role in oral health and disease. Students will examine the taxonomy and ecology of normal and pathogenic oral microbial flora, acquisition of the oral microbiota and the formation of dental plaque as a biofilm. The course will also explore other aspects of microbial biology, such as; bacterial virulence factors and pathogenesis; host defense mechanisms; systemic complications of periodontal disease; antibiotics and antibiotic resistance. The second part of the course will review the effect of recent advances in molecular biology and protein biochemistry on oral diagnosis and treatment.

**BIO-SCI 5805 Molecular Biology Of Oral Microflora**
Lecture and discussion. The course will provide an overview of the ecology of oral microbial flora and its role in oral health and disease. Students will examine the taxonomy and ecology of normal and pathogenic oral microbial flora, acquisition of the oral microbiota and the formation of dental plaque as a biofilm. The course will also explore other aspects of microbial biology, such as; bacterial virulence factors and pathogenesis; host defense mechanisms; systemic complications of periodontal disease; antibiotics and antibiotic resistance. The second part of the course will review the effect of recent advances in molecular biology
and protein biochemistry on oral diagnosis and treatment.

**BIO-SCI 5806 Oral Microbiology And Infectious Disease**
A detailed study of oral microbiology with a particular emphasis on dental plaque formation and bacterial infection in dental caries. The role of bacterial genetics in the diagnosis, prevention, and treatment of diseases involving the oral maxillofacial complex, bacteremia and endocarditis will also be discussed. Prerequisite: LS 4180.

**BIO-SCI 5830 Structural Characterization Of Dental Biomaterials**
A detailed study of the techniques commonly used to determine the composition and structure of dental biomaterials. Surface and near-surface characterization techniques will be emphasized. The student will be expected to complete laboratory projects on the scanning and transmission electron microscopies available in the School of Dentistry. Two hours lecture and two to six hours laboratory per week. Prerequisite: BIO-SCI 5701.

**BIO-SCI 5899 Required Graduate Enrollment**

**Dentistry - Professional Courses (DENT)**

**BIO-SCI 100PS Special Topics Umkc**

**BIO-SCI 101 Introduction To Biology**

**BIO-SCI 732 Dynamic Microbiological Inhibitors**

**DENT 100PS Special Topics Umkc**

**DENT 101PS Special Topics Umkc**

**DENT 102PS Special Topics Umkc**

**DENT 103PS Special Topics Umkc**

**DENT 104PS Special Topics Umkc**

**DENT 105PS Special Topics Umkc**

**DENT 106PS Special Topics Umkc**

**DENT 107PS Special Topics Umkc**

**DENT 200PS Special Topics Umkc**
DENT 201PS Special Topics Umkc
DENT 202PS Special Topics Umkc
DENT 203PS Special Topics Umkc
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DENT 211PS Special Topics Umkc
DENT 212PS Special Topics Umkc
DENT 213PS Special Topics Umkc
DENT 214PS Special Topics Umkc
DENT 300PS Special Topics Umkc
DENT 301A Clinical Sciences I
DENT 301B Biomedical Sciences I
DENT 301PS Special Topics Umkc
DENT 302PS Special Topics Umkc
DENT 303PS Special Topics Umkc
DENT 304PS Special Topics Umkc

DENT 305PS Special Topics Umkc

DENT 306PS Special Topics Umkc

DENT 307 Pharmacology

DENT 307PS Special Topics Umkc

DENT 308PS Special Topics Umkc

DENT 309 Histology II

DENT 309PS Special Topics Umkc

DENT 310 Clinical Assisting I

DENT 310PS Special Topics Umkc

DENT 311PS Special Topics Umkc

DENT 312PS Special Topics Umkc

DENT 313 Behavioral Science Lecture II

DENT 313PS Special Topics Umkc

DENT 314PS Special Topics Umkc

DENT 315PS Special Topics Umkc

DENT 316C Preventive Dental Orientation

DENT 317A Dental Anatomy Lecture

DENT 317B Dental Anatomy Lecture

DENT 320 Dental Materials Lecture
DENT 323 Oral Histology And Embryology

DENT 326C Clinical Assisting

DENT 327 Intro To Preventive Dentistry

DENT 330 Behavioral Science Lecture

DENT 331 Behavioral Science II

DENT 336 Conjoint Dent Morph & Occ

DENT 340 Physiology

DENT 345 Pharmacology

DENT 346 Dynamics Of Occlusion

DENT 347 Dynamics Of Occlusion

DENT 351 Preventative Operative Dentistry I Lab

DENT 351L Preventative Operative Dentistry I Lab

DENT 400PS Special Topics Umkc

DENT 401PS Special Topics Umkc

DENT 402PS Special Topics Umkc

DENT 403PS Special Topics Umkc

DENT 404PS Special Topics Umkc

DENT 405PS Special Topics Umkc

DENT 406PS Special Topics Umkc

DENT 407PS Special Topics Umkc
DENT 408PS Special Topics Umkc

DENT 409 Nutrition

DENT 409PS Special Topics Umkc

DENT 410PS Special Topics Umkc

DENT 411L Operative Dentistry II Lab

DENT 441L Removable Prosthodontics Lab

DENT 445 Practice Administration I

DENT 447 Principles Of Medicine

DENT 449 Behavior Science III

DENT 451 Endodontics

DENT 453 Introduction To Compr Dent Clinic

DENT 500PS Special Topics Umkc

DENT 501PS Special Topics Umkc

DENT 502PS Special Topics Umkc

DENT 503PS Special Topics Umkc

DENT 504PS Special Topics Umkc

DENT 505PS Special Topics Umkc

DENT 506 Clinical Nutrition

DENT 506PS Special Topics Umkc

DENT 507PS Special Topics Umkc
DENT 520 Oral Surgery I

DENT 565 Complete Prosthodonts Clinical

DENT 567 Oral Radio Clinical II

DENT 571 Enrich Program Participation V

DENT 572 Enrich Program Participation Vi

DENT 583 Orthodontics II

DENT 600PS Special Topics Umkc

DENT 601PS Special Topics Umkc

DENT 602PS Special Topics Umkc

DENT 603PS Special Topics Umkc

DENT 604PS Special Topics Umkc

DENT 605PS Special Topics Umkc

DENT 606PS Special Topics Umkc

DENT 607PS Special Topics Umkc

DENT 608PS Special Topics Umkc

DENT 609PS Special Topics Umkc

DENT 610PS Special Topics Umkc

DENT 611 Maxillo Facial Surg II

DENT 611PS Special Topics Umkc

DENT 612PS Special Topics Umkc
DENT 613PS Special Topics Umkc

DENT 614PS Special Topics Umkc

DENT 615 Psychiatric Aspects Dental Seminar

DENT 615PS Special Topics Umkc

DENT 616 Pedodontics Seminar

DENT 616PS Special Topics Umkc

DENT 617PS Special Topics Umkc

DENT 618PS Special Topics Umkc

DENT 619PS Special Topics Umkc

DENT 620 Community Oral Health

DENT 6203 Oral Surgery Clinical II

DENT 621 Ceramics Seminar II

DENT 622 Dental Jurisprudence And Ethics Lecture

DENT 624 Practice Administration Iv

DENT 625 General Anesthesia Seminar II

DENT 629 Public Health

DENT 6305 Operative Dentistry I Lecture
An introduction to the prevention and principles of the restorative treatment of dental caries.

DENT 6305 Operative Dentistry I Lecture
An introduction to the prevention and principles of the restorative treatment of dental caries.

DENT 6305L Operative Dentistry I Laboratory
Restorative procedures discussed in DENT 6305 are performed on laboratory manikins.

DENT 6305L Operative Dentistry I Laboratory
Restorative procedures discussed in DENT 6305 are performed on laboratory manikins.

DENT 6306 Transitions: An Introduction to the Profession and Practice of Dentistry
This course is the first in a sequence of courses throughout the dental education curriculum designed to prepare the graduate
dentist in the skills and values of ethics, professionalism and practice management. The courses use self-assessment and strategic planning as foundations and lead the students through identification of personal and professional aspirations, and culminate in building each student's competence in dental practice management.

**DENT 6306 Transitions: An Introduction to the Profession and Practice of Dentistry**
This course is the first in a sequence of courses throughout the dental education curriculum designed to prepare the graduate dentist in the skills and values of ethics, professionalism and practice management. The courses use self-assessment and strategic planning as foundations and lead the students through identification of personal and professional aspirations, and culminate in building each student's competence in dental practice management.

**DENT 6306 Transitions: An Introduction to the Profession and Practice of Dentistry**
This course is the first in a sequence of courses throughout the dental education curriculum designed to prepare the graduate dentist in the skills and values of ethics, professionalism and practice management. The courses use self-assessment and strategic planning as foundations and lead the students through identification of personal and professional aspirations, and culminate in building each student's competence in dental practice management.

**DENT 6310C Clinical Assisting**
An introduction to the principles and techniques of chairside dental assisting, clinical protocols and procedures, basics of communication, and handling professional stress. Students will then assist third and fourth year students in various clinical areas after appropriate preperation. Offered: Fall

**DENT 6312 Dental Behavioral Science I**
An introduction to the basic principles of behavioral science as they relate to oral self-care. Topics include basic principles of human behavior, adherence and motivational interviewing. Students will complete an in-depth motivational project and a communication skills exam with selected patients.

**DENT 6314C Introduction To Oral Diagnosis**
An introduction to the principles and techniques of oral diagnosis. Topics include patient history and examination and various diagnostic techniques. Students will perform an oral diagnosis on selected classmates and clinic patients after appropriate preparation.

**DENT 6315C Preventive Periodontics**
This course introduces preventive theory and the instrumentation skills necessary to provide patient care. Students are introduced to fundamental clinical procedures including plaque control, gingival assessment, and periodontal probing. Basic periodontal instrumentation skills are introduced.

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**DENT 6316 Dental Morphology**
This lecture/laboratory course introduces the student to the anatomy of the oral cavity and structures of the stomatognathic system. A thorough review of dental anatomy and dental terminology of the primary and permanent dentition will be presented. The students' knowledge of dental morphology will be reinforced by constructing wax models of permanent dentition.

**DENT 6317 Dental Occlusion**
This lecture/laboratory course will review the principles of occlusion and the anatomy and function of the stomatognathic system. The course will also provide an introduction to temporomandibular disorders and pathological changes caused by the occlusion. The practical application of gnatologic instruments is demonstrated in the laboratory, followed by occlusal treatments useful in the management of temporomandibular disorders. The judicious use of gnatologic instruments in dental reconstruction and occlusal therapy will be reviewed. Offered: Spring.

**DENT 6318 Dental Biomaterials**
This course combines the sciences of chemistry, physics, biology, materials science, and engineering to explain the use and behavior of a variety of materials used in dentistry. The purpose of the course is to provide an expanded overview and a clinically-focused approach to the selection and application of biomaterials used throughout dentistry. Semester Offered: Fall.

**DENT 6328 Clinical Decision Making in Denistry**
An experiential course that uses current controversies in to facilitate development of skills needed for making valid decision in clinical dentistry. Students will apply basic principles of database searching, research design and methodology to the critical analysis of contemporary dental literature. DENT 325 is a one-hour course that will: 1) Provide you with sufficient information to
perform week on the portions of the national boards that deal with research design and methodology; and, 2) give you skills sufficient to search for, locate, and evaluate valid information related to clinical questions in contemporary dentistry.

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**DENT 6350 Introduction To The Histopathology Of Oral Tissues**
A comparison of the microscopic anatomy of healthy and diseased oral tissues.

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A comparison of the microscopic anatomy of healthy and diseased oral tissues.

**DENT 636 Complete Prosthodont Clinical**

**DENT 637 Complete Prosthesis Clinical**

**DENT 638 Oral Diagnosis Cln III**

**DENT 639 Oral Diagnosis Clinical Iv**

**DENT 6390 Dental Research Experience**
This independent study course focuses upon experience gained in both an area of dental research as well as the process of research in working with an established dental researcher.

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This independent study course focuses upon experience gained in both an area of dental research as well as the process of research in working with an established dental researcher.

**DENT 641 Oral Radiology Clinical Iv**

**DENT 6410 Operative Dentistry II Lecture**
A continuation of DENT 6305. Principles of cavity preparation, materials and techniques are stressed.

**DENT 6410 Operative Dentistry II Lecture**
A continuation of DENT 6305. Principles of cavity preparation, materials and techniques are stressed.

**DENT 6410L Operative Dentistry II Laboratory**
A continuation of DENT 6305L. Restorative procedures are performed on laboratory manikins and extracted teeth.

**DENT 6410L Operative Dentistry II Laboratory**
A continuation of DENT 6305L. Restorative procedures are performed on laboratory manikins and extracted teeth.

**DENT 6411 Operative Dentistry III Lecture**
A continuation of DENT 6410.

**DENT 6411 Operative Dentistry III Lecture**
A continuation of DENT 6410.

**DENT 6412 Anesthesiology I Lecture**
Infiltration and regional anesthesia; technique of injections; complications of local anesthesia; a brief overview of conscious sedation.
DENT 6412 Anesthesiology I Lecture
Infiltration and regional anesthesia; technique of injections; complications of local anesthesia; a brief overview of conscious sedation.

DENT 6414 Pathology I Lecture
The general etiology of disease; circulatory and metabolic disorders; degenerative processes; inflammation; infection and immunity; tumors; and organ system pathology.

DENT 6414 Pathology I Lecture
The general etiology of disease; circulatory and metabolic disorders; degenerative processes; inflammation; infection and immunity; tumors; and organ system pathology.

DENT 6415 Pathology II
A study of developmental defects, inflammatory diseases, and neoplasia of the oral region.

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A study of developmental defects, inflammatory diseases, and neoplasia of the oral region.

DENT 6416 Complete Removable Prosthodontics
This course will introduce the dental student to concepts and procedures involved in the rehabilitation of the completely edentulous patient. Information presented will include proper clinical examination techniques, an evaluation of the findings and their impact on treatment and treatment options. The student will become familiar with the clinical steps involved in the fabrication of complete dentures and the rationale supporting these procedures. Laboratory steps as they relate to clinical treatment procedures will also be discussed. There will be additional information presented regarding single complete dentures, immediate dentures, overdentures, implant-retained complete dentures, and rebasing and relining techniques.

DENT 6416L Complete Removable Prosthodontics I Laboratory
This course will introduce the student to the clinical and laboratory steps involved in the fabrication of complete dentures. Students will learn how to manipulate the materials involved as well as indications for their usage. The course will be structured to closely resemble the clinical experience in concept and techniques where feasible. The goal is to teach the skills necessary to manage edentulous patients and also to teach in detail the entire process of complete denture fabrication. This will enhance overall dental skills and provide a knowledge base with which to critically evaluate laboratory procedures and results. This laboratory course provides the student the opportunity to acquire the foundational skills, which must be mastered before clinical competency, can be attained. A goal of the course is to provide the opportunity for the student to acquire the hand/eye skills, which are necessary to treat the edentulous patient in a clinical setting.

DENT 6417 Removable Partial Prosthodontics
A 3 credit hour combined lecture and laboratory course. In lecture students will study terminology and all aspects of removable partial denture design theory to provide health, longevity, and esthetics of the prosthesis and periodontium. In the laboratory the student will learn to plan, design, and prepare the mouth for a prosthesis. They will demonstrate understanding of concepts and methods by applying them to the solution of problems. They will: Develop critical thinking and problem solving related to diagnosis, planning and treatment; Make decisions based on current, empirical, and published evidence. Offered: Spring

DENT 642 Oral Surgery Clinic Iv

DENT 6420 Periodontics I
It is the scope of this course to introduce the basic disease mechanisms involved in the evolution of the inflammatory periodontal lesion; i.e., the interaction of the host tissues with the oral microbial flora. The course will cover the entire range of possible periodontal diseases, ranging from simple marginal gingivitis to AIDS related necrotizing ulcerative periodontitis. Further, the course will continually reinforce the science of periodontology and its overwhelming relationship to the clinical practice of periodontics.

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DENT 6422 Fixed Prosthodontics I Lecture
This course is designed to provide the foundation knowledge needed by the novice to formulate clinical judgments in the areas of
treatment planning, tooth preparation, and the selection and use of dental biomaterials for the restoration of single teeth with fixed prosthodontic restorations. The topics covered also include provisional restorations, impressions materials and technique, dental cements, and laboratory aspects involved in the fabrication of cast gold crowns.

**DENT 6422L Fixed Prosthodontics I Laboratory**
The second course in the fixed prosthodontic curriculum is designed to provide foundation knowledge needed by the novice to formulate clinical judgments in the areas of treatment planning, tooth preparation, and the selection and use of dental biomaterials for the restoration of missing teeth with fixed partial dentures and implants. Offered: Fall

**DENT 6423 Fixed Prosthodontics II Lecture**
The second course in the fixed prosthodontic curriculum is designed to provide foundation knowledge needed by the novice to formulate clinical judgments in the areas of treatment planning, tooth preparation, and the selection and use of dental biomaterials for the restoration of missing teeth with fixed partial dentures and implants. Offered: Spring.

**DENT 6423L Fixed Prosthodontics II Laboratory**
The second laboratory course in fixed prosthodontics is focused on the replacement of missing teeth with fixed partial dentures and implant restoration. Projects build the skills to begin development of clinical competence in fixed partial dentures and implant restorations. Offered: Spring

**DENT 6424 Oral Diagnosis And Oral Medicine**
Includes presentation of the principles of history taking and examination of the patient, the signs and symptoms of diseases and the medical management of patients with illness. The dental management of patients with systemic disease is stressed.

**DENT 6424 Oral Diagnosis And Oral Medicine**
Includes presentation of the principles of history taking and examination of the patient, the signs and symptoms of diseases and the medical management of patients with illness. The dental management of patients with systemic disease is stressed.

**DENT 6426 Oral Radiology Lecture**
Radiation physics, radiation biology, quality assurance, imaging principles, radiation hygiene, radiographic interpretation and techniques of intra-oral survey are presented.

**DENT 6426 Oral Radiology Lecture**
Radiation physics, radiation biology, quality assurance, imaging principles, radiation hygiene, radiographic interpretation and techniques of intra-oral survey are presented.

**DENT 6429 Dental Behavioral Science II**
This course builds upon the foundational material with a focus on dealing with challenging patients and managing professional stress. Students will complete an in-depth anxiety management project and communication competency exam with selected patients.

**DENT 643 Oral Surgery Clinic IV**

**DENT 6431 Pediatric Dentistry I Lecture**
The overall goal of this didactic course is to provide the student with the fundamental knowledge necessary to provide comprehensive dental care to pediatric patients. In addition, this course strives to develop an attitude towards learning such that the student will seek opportunities to further his/her knowledge and skills in pediatric dentistry subsequent to graduation. Finally, this course is intended to sensitize students to their responsibility as health care providers for the children in their community.

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The overall goal of this didactic course is to provide the student with the fundamental knowledge necessary to provide comprehensive dental care to pediatric patients. In addition, this course strives to develop an attitude towards learning such that the student will seek opportunities to further his/her knowledge and skills in pediatric dentistry subsequent to graduation. Finally, this course is intended to sensitize students to their responsibility as health care providers for the children in their community.

**DENT 6435 Endodontics I Lecture**
An introductory course in endodontics emphasizing pulp and periapical biology and pathology. Extra emphasis will be placed on endodontic diagnosis of non-odontogenic facial pain, problems with anesthesia in endodontics and treatment planning.

**DENT 6436 Orthodontics: Growth And Development**
Certain malocclusions and dental deformities can occur due variations in growth and normal developmental process. In order to treat and understand these problems, an in-depth and through understanding of craniofacial growth and development is necessary.
Understanding how and when the face and head is actively growing will enable the clinician to redirect facial growth to reduce the severity of forming skeletal/dental malocclusions. Since orthodontic treatment may involve the modification and/or manipulation of skeletal growth, it is important not only to understand dental development but also physical, physiologic and psychosocial development. This course is designed to address these needs.

**DENT 6436 Orthodontics: Growth And Development**
Certain malocclusions and dental deformities can occur due variations in growth and normal developmental process. In order to treat and understand these problems, an in-depth and through understanding of craniofacial growth and development is necessary. Understanding how and when the face and head is actively growing will enable the clinician to redirect facial growth to reduce the severity of forming skeletal/dental malocclusions. Since orthodontic treatment may involve the modification and/or manipulation of skeletal growth, it is important not only to understand dental development but also physical, physiologic and psychosocial development. This course is designed to address these needs.

**DENT 6439 Medical Emergencies In The Dental Office**

**DENT 644 Fixed Prosthodontics Clinical**

**DENT 6440 Oral Surgery I**
An introduction to the basic principles of oral surgery.

**DENT 6440 Oral Surgery I**
An introduction to the basic principles of oral surgery.

**DENT 6441C Treatment Planning**
The student is introduced to comprehensive treatment planning in dentistry using lectures, cases, and class discussions. Offered: Winter

**DENT 6441C Treatment Planning**
The student is introduced to comprehensive treatment planning in dentistry using lectures, cases, and class discussions. Offered: Winter

**DENT 6442 Endodontics II Lecture**
A continuation of the study of endodontics emphasizing non-surgical endodontics, surgical endodontics and post-endodontic treatment.

**DENT 6442 Endodontics II Lecture**
A continuation of the study of endodontics emphasizing non-surgical endodontics, surgical endodontics and post-endodontic treatment.

**DENT 6442L Endodontics Laboratory**
The preparation and filling of root canals of extracted teeth in the laboratory setting.

**DENT 6442L Endodontics Laboratory**
The preparation and filling of root canals of extracted teeth in the laboratory setting.

**DENT 645 Fixed Prosthodontics Clinical**

**DENT 646 Operative Dentistry Clinical**

**DENT 6460C Review Of Pre-Clinical Dentistry**
A combination of lecture, selected readings and independent study designed to reinforce and integrate concepts contained in the pre-clinical dental curriculum. The course will meet for 3 hours each week for the first 7 weeks of the term, with an additional 11 hours of independent computer-aided study required during this period. Offered: Summer Semester.
**DENT 6460C Review Of Pre-Clinical Dentistry**
A combination of lecture, selected readings and independent study designed to reinforce and integrate concepts contained in the pre-clinical dental curriculum. The course will meet for 3 hours each week for the first 7 weeks of the term, with an additional 11 hours of independent computer-aided study required during this period. Offered: Summer Semester.

**DENT 647** Operative Dentistry Clinical

**DENT 648** Oral Diagnosis Clinical

**DENT 649** Oral Diagnosis Clinical

**DENT 6501C Intro To Comprehensive Patient Care**
The purpose of this course is to introduce the student to the clinical environment and to familiarize him/her with comprehensive patient care. In addition, it allows the student to develop and interpret basic diagnostic aids that enable him/her to arrive at a diagnosis and treatment outline, the beginning steps of comprehensive care. Patient care is provided following the outlined treatment plan. The student will apply the principles/concepts of patient care. Students begin treatment of a "family" of patients under faculty supervision. Prerequisite: first and second year courses.

**DENT 6502 Grand Rounds I**
Students prepare to develop and present oral reports typically given at professional meetings such as case presentations, table clinics, research reports or presentations of new techniques (such as in Table Clinic requirements or Senior Grand Rounds). This course will expand on the student's basic knowledge of critical review of scientific literature and information literacy. Cases and problems in dentistry and oral health will be the context for identification and application of current valid scientific literature. This course seeks to foster an attitude of critical analysis and commitment to life-long learning.

**DENT 6504 Community and Professional Education**
Preventive oral health education to school-aged children and scientific presentation to a professional audience. Offered: Spring

**DENT 6507C Pediatric Clinical Dentistry II**
Clinical application of those principles taught in preceding terms.

**DENT 6509C Comprehensive Patient Care I**
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skills through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Fall

**DENT 6509C Comprehensive Patient Care I**
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a
general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skills through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Fall Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skills through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Winter

DENT 651 Oral Surgery Clinical

DENT 6510C Comprehensive Patient Care II
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skills through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Winter

DENT 6514 Pathology III Lecture
Continued study of pathological conditions of the oral region with emphasis on clinical signs and symptoms.

DENT 6515 Periodontics II
The overall goal of this course is to help the pre-doctoral students to recognize periodontal disease and treatment plan the needed periodontal therapy. Specific goals are to enhance the student's knowledge of the surgical aspects of periodontal therapy, and the relationship of periodontal disease and its treatment to the overall dental treatment plan.

DENT 6517 International Outreach
Students in predoctoral dental education or advanced education in the dental school will have the opportunity to apply knowledge and skills while delivering care in a international setting. The long range goal is a practitioner who is sensitive to diverse community needs.

DENT 652 Pedodontics Clinical

DENT 6521 Oral Surgery II Lecture
The diagnosis and treatment planning of fractures, cysts, neoplasms, and other problems in oral pathology of the mandible and maxilla and associated anatomical structures.
DENT 6521C Periodontics Clinical I
Clinical application of those principles taught in preceding terms.

DENT 6522 Oral Surgery Lecture III
A continuation of DENT 6521.

DENT 6522 Oral Surgery Lecture III
A continuation of DENT 6521.

DENT 6524 Principles Of Medicine And Physical Diagnosis
Includes presentation of the principles of history-taking and examination of the patient, the signs and symptoms of diseases and the medical management of patients with illness. The dental management of patients with systemic disease is stressed.

DENT 6524 Principles Of Medicine And Physical Diagnosis
Includes presentation of the principles of history-taking and examination of the patient, the signs and symptoms of diseases and the medical management of patients with illness. The dental management of patients with systemic disease is stressed.

DENT 6526 Orthodontics I
Orthodontics I is a course designed to introduce the student to the field of orthodontics. The lecture will introduce the student to basic orthodontic terminology, description, diagnosis, and mechanotherapy. This course will prepare the student for the clinical treatment of patients needing limited tooth movement. Offered: Winter

DENT 6526 Orthodontics I
Orthodontics I is a course designed to introduce the student to the field of orthodontics. The lecture will introduce the student to basic orthodontic terminology, description, diagnosis, and mechanotherapy. This course will prepare the student for the clinical treatment of patients needing limited tooth movement. Offered: Winter

DENT 6526C Preventive Dentistry Clinical
Clinical application of those principles taught in preceding terms.

DENT 6526C Preventive Dentistry Clinical
Clinical application of those principles taught in preceding terms.

DENT 6526L Orthodontics I Laboratory
Orthodontics I Laboratory enables the student to master the materials of orthodontics in order to complete diagnostic records, to construct fixed and removable appliances, and to be familiar with tooth movement mechanics. This course will prepare the student for clinical treatment of patients needing limited tooth movement. Offered: Winter

DENT 6526L Orthodontics I Laboratory
Orthodontics I Laboratory enables the student to master the materials of orthodontics in order to complete diagnostic records, to construct fixed and removable appliances, and to be familiar with tooth movement mechanics. This course will prepare the student for clinical treatment of patients needing limited tooth movement. Offered: Winter

DENT 6527 Pharmacotherapeutics
This course will provide the background necessary for the dentist to become knowledgeable about the drugs their patients may be taking and their related medical conditions. Lecture topics include the diseases and medical conditions commonly seen in dental patients on an outpatient basis. The course presents the effects, mechanisms of action, dosage forms, and relevant pharmacokinetics for the drugs used in the management of these diseases. The course will cover the important side-effects and precautions of drugs that are pertinent to the safe management of dental patients.

DENT 653 Pedodontics Clinical

DENT 6531 Complete Removable Prosthodontics II Lecture
Advanced principles of complete denture construction are stressed and emphasis on their clinical application is included. Additional clinical approaches to the partial and completely edentulous patient are explored.

DENT 6531 Complete Removable Prosthodontics II Lecture
Advanced principles of complete denture construction are stressed and emphasis on their clinical application is included.
Additional clinical approaches to the partial and completely edentulous patient are explored.

**DENT 6532C Oral Diagnosis Clinical II**
Further clinical application of diagnostic principles. Students will complete a diagnostic competency examination on a selected patient.

**DENT 6534 Advanced Predoctoral Prosthodontics**
This course reviews advanced principals in Fixed and Removable Prosthodontics. Using evidenced based concepts, information will be presented to aid the student clinician make well informed clinical choices which will help prepare them for the use of prosthodontic techniques in the practice of general dentistry. A variety of materials, devices, and concepts will be presented. Making intelligent choices in the selection and use of these restorative materials and concepts will be a focus.

**DENT 6537 Oral Oncology**
A lecture course on oral oncology will deal with the biologic aspects of cancer; the detection of oral cancer and the different modalities of treatment of cancer; the dental aspects both from surgical reconstruction and prosthetic reconstruction following cancer surgery; and management of the patient prior to, during, and following radiation therapy to the head and neck and during chemotherapy for systemic cancer.

**DENT 6538 Orthodontics II**
This course will present a variety of topics related to orthodontics, such as: normal development, abnormal occlusal deviations during the developing permanent dentition, diagnosis and treatment planning of orthodontic problems, biomechanical principles in orthodontics, adolescent vs. adult orthodontics, periodontal health during orthodontic treatment, complications associated with orthodontic treatment and controversial aspect of orthodontics. You should also be able to recognize which kind of cases exceed the scope of limited treatment and may require intervention by a specialist. Offered: Fall

**DENT 654 Periodontics Clinical**

**DENT 6542C Operative Dentistry Clinical II**
Clinical application of those principles taught in preceding terms.

**DENT 655 Periodontics Clinical**

**DENT 6551CR Oral Surgery Clinical**
Oral Surgery Clinical is a course for application of principles taught in didactic courses (D6412, D6439, D6440, D6521, D6522, and D6610) and the Oral Surgery Rotations. Oral Surgery Clinical is designed to prepare the dental student with the necessary didactic and clinical skills to properly evaluate patients and provide Oral Surgery care in a safe effective and caring manner and to evaluate competency in tow areas: managing medical emergencies and oral surgical skills expected of a general dentist.
DENT 6551CR Oral Surgery Clinical
Oral Surgery Clinical is a course for application of principles taught in didactic courses (D6412, D6439, D6440, D6521, D6522, and D6610) and the Oral Surgery Rotations. Oral Surgery Clinical is designed to prepare the dental student with the necessary didactic and clinical skills to properly evaluate patients and provide Oral Surgery care in a safe effective and caring manner and to evaluate competency in tow areas: managing medical emergencies and oral surgical skills expected of a general dentist.

DENT 6556 Radiographic Interpretation
This is a comprehensive multidisciplinary course in radiologic interpretation of normal anatomy, anomalies, dental caries, periodontal disease, periapical pathology and infections of the maxilla and mandible.

DENT 6556 Radiographic Interpretation
This is a comprehensive multidisciplinary course in radiologic interpretation of normal anatomy, anomalies, dental caries, periodontal disease, periapical pathology and infections of the maxilla and mandible.

DENT 6558 Radiographic Interpretation II
This is a continuation of radiographic interpretation in which the students continue to deepen their knowledge in radiologic interpretation of normal anatomy, anomalies, dental caries, periodontal disease, periapical pathology and infections of the maxilla and mandible. Offered: Winter

DENT 6559 Diagnosis And Management Of Orofacial Pain
Essential conceptual, clinical and technical information and skills necessary in the diagnosis and treatment of Orofacial Pain States. Diagnostic protocols and radiographic procedures and their integration as it relates to painful head and neck conditions are presented in depth. Differential diagnosis and special diagnostic techniques are also addressed. Behavioral factors associated with the development of chronic pain and complicating the management of pain states are identified and discussed.

DENT 6559 Diagnosis And Management Of Orofacial Pain
Essential conceptual, clinical and technical information and skills necessary in the diagnosis and treatment of Orofacial Pain States. Diagnostic protocols and radiographic procedures and their integration as it relates to painful head and neck conditions are presented in depth. Differential diagnosis and special diagnostic techniques are also addressed. Behavioral factors associated with the development of chronic pain and complicating the management of pain states are identified and discussed.

DENT 6562C Removable Prosthodontics Clinical II
Clinical application of those principles taught in preceding terms.

DENT 6566 Bridge Course
This course is designed as a lecture and clinical course to provide a transition into the clinical phase of the dental curriculum for the third year dental student. Offered: Summer.

DENT 657 Preventive Dental Clinical

DENT 659 Comprehensive Dentistry Iv

DENT 6591C Professional Development I
Clinical application of those principles taught in preceding terms.

DENT 6591C Professional Development I
Clinical application of those principles taught in preceding terms.

DENT 6592C Professional Development II
Clinical application of those principles taught in preceding terms.

DENT 6592C Professional Development II
Clinical application of those principles taught in preceding terms.

DENT 6593C Professional Development III
Clinical application of those principles taught in preceding terms.

DENT 6593C Professional Development III
Clinical application of those principles taught in preceding terms.
DENT 595 Introduction To Implant Dentistry
To provide the undergraduate student with a solid background into the role of implant dentistry in their profession. Advances in technique and materials which are responsible for improved predictability will be presented. Emphasis will be on patient selection, treatment planning and basic restorative techniques. The student will be able to initiate uncomplicated dental implant procedures with this information and will be prepared to enter into more advanced continuing education and graduate programs in this subject.

DENT 6600 Review Of Clinical Dentistry
A summative review of the basic areas of clinical dentistry.

DENT 6601C Endodontics Clinical
Clinical application of principles taught in preceding terms.

DENT 6602 Grand Rounds II
This course is a continuation of Grand Rounds I and its aim is similar to Grand Rounds I: expand on the dental student's basic knowledge of critical review of scientific literature and information literacy. Students will present a Table Clinic at Midwest Dental Conference and prepare a proposal for their senior Grand Rounds presentation.

DENT 6603 Grand Rounds III
Grand Rounds III is an independent study course designed to develop research skills required to keep abreast of current concepts in dentistry, develop the organizational skills needed for an effective case presentation, and develop professional public speaking skills. After completing relevant literature research, the student will prepare the presentation of a case study and give a multimedia presentation to peers and colleagues.

DENT 6604 Grand Rounds IV
Grand Rounds IV continues Grand Rounds III is an independent study course designed to develop research skills required to keep abreast of current concepts in dentistry, develop the organizational skills needed for an effective case presentation, and develop professional public speaking skills. After completing relevant literature research, the student will prepare the presentation of a case study and give a multimedia presentation to peers and colleagues.

DENT 6605 Review Of Clinical Dentistry II
A review of foundation knowledge for clinical dentistry.

DENT 6606C Pediatric Dentistry Clinical I
Clinical application of those principles taught in preceding terms.

DENT 6607C Pediatric Dentistry Clinical II
Clinical application of those principles taught in preceding terms.
DENT 6607C Pediatric Dentistry Clinical II
Clinical application of those principles taught in preceding terms.

DENT 6608C Pediatric Dentistry Clinical III
Clinical application of those principles taught in preceding terms.

DENT 6609C Comprehensive Patient Care III
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skills through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Winter

DENT 6609C Comprehensive Patient Care IV
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skills through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Winter

DENT 660A Comprehensive Dentistry III

DENT 6610 Anxiety And Pain Control In Dentistry
Techniques of selecting, administering and evaluating inhalation and intravenous sedation agents. An introduction to general anesthesia will also be included. Clinical experience in inhalation and intravenous sedation is highly desirable.

DENT 6610 Anxiety And Pain Control In Dentistry
Techniques of selecting, administering and evaluating inhalation and intravenous sedation agents. An introduction to general anesthesia will also be included. Clinical experience in inhalation and intravenous sedation is highly desirable.

DENT 6610C Comprehensive Patient Care IV
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skill through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Fall

DENT 6610C Comprehensive Patient Care IV
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skill through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Fall

DENT 6611C Fixed Prosthodontics Clinical I
Clinical application of principles taught in preceding terms.

DENT 6611C Fixed Prosthodontics Clinical I
Clinical application of principles taught in preceding terms.

DENT 6613 Periodontal Treatment Planning

DENT 6613 Periodontal Treatment Planning

DENT 6614 Dentistry For The Special Patient
The purpose of this course is to acquaint the student with the dental treatment of three populations of patients who you may encounter in your dental career (and often have trouble finding adequate care). They include patients who are developmentally disabled, the elderly, and the medically-compromised. The course will present management techniques for in-office treatment and appropriate referral of those patients best treated in another setting. This course builds upon the skills and knowledge gained...
in previous courses in many disciplines, to provide an interdisciplinary experience with special patient populations. A required rotation at the Regional Center for the Developmentally Disabled gives practical experience to topics covered in lecture.

**DENT 6614C Comprehensive Patient Care V**
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skill through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Winter

**DENT 6614C Comprehensive Patient Care V**
Third and fourth year dental students will spend the majority of their curriculum time mastering the competencies required of a general dentist. This includes the ability to complete a dental diagnosis and treatment plan, present the case to the patient, implement and evaluate the dental care delivered. Comprehensive patient care courses foster development of skill through daily evaluation in technique, patient management, and diagnostic ability, supplemented by periodic mentor and team faculty evaluation. Semester evaluation will also take into account clinical productivity using a time unit system. Offered: Winter

**DENT 6617 Pediatric Dentistry Seminar**
This course is designed to allow fourth year students to build on the concepts presented in D6431. Using a seminar format, students will review pediatric dentistry concepts with emphasis on clinical application.

**DENT 6617 Pediatric Dentistry Seminar**
This course is designed to allow fourth year students to build on the concepts presented in D6431. Using a seminar format, students will review pediatric dentistry concepts with emphasis on clinical application.

**DENT 6618 Dental Jurisprudence And Ethics**
Legal aspects of dentistry to include dentist-patient and dentist-state relationships. Principles of ethics and the Missouri State Dental Laws are also covered.

**DENT 6618 Dental Jurisprudence And Ethics**
Legal aspects of dentistry to include dentist-patient and dentist-state relationships. Principles of ethics and the Missouri State Dental Laws are also covered.

**DENT 661A Comprehensive Dent III**

**DENT 6622C Periodontics Clinical Iv**
Clinical application of those principles taught in preceding terms.

**DENT 6622C Periodontics Clinical Iv**
Clinical application of those principles taught in preceding terms.

**DENT 6626 Clinical Treatment Planning**
This course builds on the didactic courses and clinical experiences in treatment planning. Each student will demonstrate competency in comprehensive treatment planning to earn credit in the course. Offered: Fall

**DENT 6626 Clinical Treatment Planning**
This course builds on the didactic courses and clinical experiences in treatment planning. Each student will demonstrate competency in comprehensive treatment planning to earn credit in the course. Offered: Fall

**DENT 6630 Practice Management I**
A consideration and evaluation of the various economic factors and managerial practices that affect the operational aspects of the practice of dentistry. The course provides a working knowledge of basic practice management topics to help future dentists operate and/or be members of a dental practice. Various systems of practice will be presented giving students the opportunity to develop their own philosophy of practice (The Practice Blueprint). The course will expose students to basic business and economic principles, practical information on the daily operation of a dental practice, different opportunities available to practice dentistry, enhance their interpersonal communication skills and prepare them for life outside of dental school.

**DENT 6631 Practice Management II**
A continuation of the objectives of D6630. Students will be introduced to the financial and economic skills necessary for operating a small business (i.e. a dental practice). Upon completion, students should feel competent in operating the business side
of their practice profitably. Resources and ongoing support are also provided.

**DENT 6633 Introduction To Dental Public Health**
Discussion of contemporary issues in community health and community oral health with emphasis on preparing students for their roles as professional members of their communities.

**DENT 6633 Introduction To Dental Public Health**
Discussion of contemporary issues in community health and community oral health with emphasis on preparing students for their roles as professional members of their communities.

**DENT 6634 Extramural Clinical Rotations (ERC) I**
The purpose of this course is to expose third and forth year dental students to alternative methods of dental care delivery to populations at high risk for dental disease. Specifically the course places junior and senior students in an existing network of community health centers and rural outreach sites where they deliver dental care while serving on multi-disciplinary teams that meet the primary health care needs of large segments of underserved populations. The long range goal is a practitioner who is sensitive to diverse community needs. Prerequisite: Completion of Third Year Offered: Winter Semester Restrictions: Not eligible until completion of two clinical semesters-summer and fall of junior year.

**DENT 6635 Extramural Clinical Rotations (ERC) II**
A continuation of community-based dental education I (D-634). Prerequisite: Completion of Third Year Offered: Summer/Fall Semester Restrictions: Not eligible until completion of clinical requirements for the third year.

**DENT 6636C Oral Radiology Clinical**
Clinical application of those principles taught in preceding terms with emphasis on use of a variety of film holding devices. Radiographic quality assurance and darkroom maintenance will be reviewed during this course.

**DENT 6636C Oral Radiology Clinical**
Clinical application of those principles taught in preceding terms with emphasis on use of a variety of film holding devices. Radiographic quality assurance and darkroom maintenance will be reviewed during this course.

**DENT 6641CR Operative Dentistry Clinical I**
Clinical application of principles taught in preceding terms.

**DENT 6641CR Operative Dentistry Clinical I**
Clinical application of principles taught in preceding terms.

**DENT 6642C Operative Dentistry Clinical Iv**
Clinical application of those principles taught in preceding terms.

**DENT 6642C Operative Dentistry Clinical Iv**
Clinical application of those principles taught in preceding terms.

**DENT 6650 Applied Ethics**
Four or five case studies will be used during seminars. Basic ethical principles from the D-6306 course will be applied to the case studies. Two of the cases will involve ethical issues, and one of the cases will add community dentistry issues. Other cases will be used as generated or suggested by each seminar group.

**DENT 6650 Applied Ethics**
Four or five case studies will be used during seminars. Basic ethical principles from the D-6306 course will be applied to the case studies. Two of the cases will involve ethical issues, and one of the cases will add community dentistry issues. Other cases will be used as generated or suggested by each seminar group.

**DENT 6656C Orthodontic Clinical I**
The purpose of this course is to allow each student to develop the skills, knowledge and values to diagnose potential or actual malocclusions and manage patient who need orthodontic intervention. Offered: Fall

**DENT 6656C Orthodontic Clinical I**
The purpose of this course is to allow each student to develop the skills, knowledge and values to diagnose potential or actual malocclusions and manage patient who need orthodontic intervention. Offered: Fall
DENT 6657C Orthodontic Clinical II
A continuation of DENT 6656C.

DENT 6690 Independent Study In Dentistry
This course provides students the opportunity to undertake independent study projects in specific areas of dentistry. Prior consent of instructor required. Course may be repeated.

DENT 6691C Professional Development Iv
Clinical application of those principles taught in preceding terms.

DENT 6692C Professional Development V
Clinical application of those principles taught in preceding terms.

DENT 700 Oral Diagnosis Oral Medicine I

DENT 700PS Special Topics Umkc

DENT 701PS Special Topics Umkc

DENT 702PS Special Topics Umkc

DENT 703PS Special Topics Umkc

DENT 704PS Special Topics Umkc

DENT 705PS Special Topics Umkc

DENT 800PS Special Topics Umkc

DENT 801PS Special Topics Umkc

DENT 802PS Special Topics Umkc

DENT 803PS Special Topics Umkc

DENT 804PS Special Topics Umkc
DENT 805PS Special Topics Umkc

DENT 806PS Special Topics Umkc

DENT 900PS Special Topics Umkc

DENT 901PS Special Topics Umkc

G-PRAC 100PS Special Topics Umkc

OR-D&M 721 Advanced Radiographic Int

ORTHOD 700PS Special Topics Umkc

ORTHOD 701PS Special Topics Umkc

ORTHOD 702PS Special Topics Umkc

ORTHOD 703PS Special Topics Umkc

ORTHOD 704PS Special Topics Umkc

ORTHOD 710PS Special Topics Umkc

ORTHOD 720PS Special Topics Umkc

ORTHOD 730PS Special Topics Umkc

ORTHOD 800PS Special Topics Umkc

ORTHOD 801PS Special Topics Umkc

ORTHOD 802PS Special Topics Umkc

ORTHOD 803PS Special Topics Umkc

ORTHOD 810PS Special Topics Umkc

ORTHOD 820PS Special Topics Umkc
ORTHOD 830PS Special Topics Umkc

ORTHOD 899 Required Graduate Enrollment

ORTHOD 900PS Special Topics Umkc

Endodontics (ENDO)
ENDO 5701 Endodontology 1
This course is designed to introduce the first year endodontic postgraduate student to the field of advanced endodontics. It will provide introductory information and guidance which will serve as a basis for follow on course work in ENDO 5702 through ENDO 5706. Prerequisite: None

ENDO 5701 Endodontology 1
This course is designed to introduce the first year endodontic postgraduate student to the field of advanced endodontics. It will provide introductory information and guidance which will serve as a basis for follow on course work in ENDO 5702 through ENDO 5706. Prerequisite: None

ENDO 5702 Endodontology 2
This course is designed to continue the transition of the general dentist into a first year endodontic postgraduate student in the field of advanced endodontics. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident. Prerequisite: None

ENDO 5702 Endodontology 2
This course is designed to continue the transition of the general dentist into a first year endodontic postgraduate student in the field of advanced endodontics. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident. Prerequisite: None

ENDO 5703 Endodontology 3
This course is designed to complete the transition of the general dentist into a first year endodontic postgraduate student in the field of advanced endodontics. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident. Prerequisites: ENDO 5701 & ENDO 5702 Offered: On demand

ENDO 5703 Endodontology 3
This course is designed to complete the transition of the general dentist into a first year endodontic postgraduate student in the field of advanced endodontics. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident. Prerequisites: ENDO 5701 & ENDO 5702 Offered: On demand

ENDO 5704 Endodontology 4
This course is designed to transition the first year into a second year postgraduate student in the field of advanced endodontics. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident. Prerequisites: ENDO 5701, ENDO 5702, ENDO 5703.

ENDO 5704 Endodontology 4
This course is designed to transition the first year into a second year postgraduate student in the field of advanced endodontics. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident. Prerequisites: ENDO 5701, ENDO 5702, ENDO 5703.

ENDO 5705 Endodontology 5
This course is designed to continue the transition of the general dentist into a more proficient second year postgraduate student in the field of advanced endodontics. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident. Prerequisites: ENDO 5701, ENDO 5702, ENDO 5703, ENDO 5704

ENDO 5705 Endodontology 5
This course is designed to continue the transition of the general dentist into a more proficient second year postgraduate student in the field of advanced endodontics. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident. Prerequisites: ENDO 5701, ENDO 5702, ENDO 5703, ENDO 5704

ENDO 5706 Endodontology 6
This course is designed to complete the transition of the general dentist into a fully independently practicing endodontist. It will
build upon material taught in previous courses of instruction as well as introduce completely new material to the resident.
Prerequisite: ENDO 5701, ENDO 5702, ENDO 5703, ENDO 5704, ENDO 5705

ENDO 5706 Endodontology 6
This course is designed to complete the transition of the general dentist into a fully independently practicing endodontist. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident.
Prerequisite: ENDO 5701, ENDO 5702, ENDO 5703, ENDO 5704, ENDO 5705

ENDO 5721 Endodontology 7
This course is designed to complete the transition of the general dentist into a fully independently practicing endodontist. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident.
Prerequisites: Endodontology 1 to 6. Offered: On Demand.

ENDO 5723 Endodontology 9
This course is designed to complete the transition of the general dentist into a fully independently practicing endodontist. It will build upon material taught in previous courses of instruction as well as introduce completely new material to the resident.
Prerequisites: Endodontology 1 to 8. Offered: On Demand.

General Practice (G-PRAC)
G-PRAC 5710 Principles Of Pedodontics For General Practice
A lecture course presenting the basic concepts of diagnosis and treatment of the child in a general dental practice.

G-PRAC 5710 Principles Of Pedodontics For General Practice
A lecture course presenting the basic concepts of diagnosis and treatment of the child in a general dental practice.

G-PRAC 5716 Special Problems In General Practice Dentistry I
Courses designed to provide the student with opportunities to work with consultants and specialists on the faculty of the dental school on cases which require the attention of a specialist.

G-PRAC 5716 Special Problems In General Practice Dentistry I
Courses designed to provide the student with opportunities to work with consultants and specialists on the faculty of the dental school on cases which require the attention of a specialist.

G-PRAC 5717 Special Problems In General Practice Dentistry II
A continuation of G-PRAC 5716.

G-PRAC 5717 Special Problems In General Practice Dentistry II
A continuation of G-PRAC 5716.

G-PRAC 5718 Special Problems In General Practice Dentistry III
A continuation of G-PRAC 5717.

G-PRAC 5718 Special Problems In General Practice Dentistry III
A continuation of G-PRAC 5717.

G-PRAC 5721 General Practice Clinic I

G-PRAC 5721 General Practice Clinic I

G-PRAC 5722 General Practice Clinic II

G-PRAC 5722 General Practice Clinic II

G-PRAC 5723 General Practice Clinic III

G-PRAC 5723 General Practice Clinic III
G-PRAC 5723 General Practice Clinic III

G-PRAC 5724 Hospital Residency In General Practice Iv

G-PRAC 5724 Hospital Residency In General Practice Iv

G-PRAC 5725 Hospital Residency In General Practice V

G-PRAC 5725 Hospital Residency In General Practice V

G-PRAC 5726 Hospital Residency In General Practice Vi

G-PRAC 5726 Hospital Residency In General Practice Vi

G-PRAC 5727 General Practice Clinical Pedodontics
Clinical training in treating normal and handicapped children at Children's Mercy Hospital. Training includes providing treatment under general anesthesia at the hospital.

G-PRAC 5727 General Practice Clinical Pedodontics
Clinical training in treating normal and handicapped children at Children's Mercy Hospital. Training includes providing treatment under general anesthesia at the hospital.

G-PRAC 5728 Dental Implantology
The course is designed to include the following topics: history of implantology, implant materials and designs, fibroosseous and osseo-integration theories, bioinert and bioactive retention, indication and case selection, technique methodology, anatomical considerations and reasons for failure, prosthetic considerations using several systems and necessary radiographic aids, surgical stent and laboratory with simulated insertion of an implant.

G-PRAC 5728 Dental Implantology
The course is designed to include the following topics: history of implantology, implant materials and designs, fibroosseous and osseo-integration theories, bioinert and bioactive retention, indication and case selection, technique methodology, anatomical considerations and reasons for failure, prosthetic considerations using several systems and necessary radiographic aids, surgical stent and laboratory with simulated insertion of an implant.

G-PRAC 5729 Oral Endosteal Implantology II
A continuation of G-PRAC 5728.

G-PRAC 5729 Oral Endosteal Implantology II
A continuation of G-PRAC 5728.

G-PRAC 5730 Introduction To Periodontology
This course is designed to introduce graduate students who are not enrolled in the periodontics program to various current philosophies and clinical applications of Periodontics including etiology, diagnosis, pathogenesis and various treatment modalities in current use.

G-PRAC 5730 Introduction To Periodontology
This course is designed to introduce graduate students who are not enrolled in the periodontics program to various current philosophies and clinical applications of Periodontics including etiology, diagnosis, pathogenesis and various treatment modalities in current use.

G-PRAC 5731 Principles Of Minor Tooth Movement
This lecture and laboratory course gives the non-orthodontic student an introduction to craniofacial growth and development physiology of the stomatognathic system, to etiology, incidence, recognition and unfavorable sequelae of malocclusion, and to the fabrication of removable and fixedbanded appliances necessary for the correction of minor irregularities.
G-PRAC 5731 Principles Of Minor Tooth Movement
This lecture and laboratory course gives the non-orthodontic student an introduction to craniofacial growth and development physiology of the stomatognathic system, to etiology, incidence, recognition and unfavorable sequelae of malocclusion, and to the fabrication of removable and fixedbanded appliances necessary for the correction of minor irregularities.

G-PRAC 5732 Intravenous And Inhalation Sedation
A comprehensive study of nitrous oxide and valium sedation combining lectures and clinical problems.

G-PRAC 5740 Interdisciplinary Seminar I
The integration of common areas of concern in the clinical disciplines of Oral and Maxillofacial Surgery, Orthodontics, Pediatric Dentistry, Periodontics and Prosthodontics as they relate to patient cases. Cases are presented that present problems in at least two clinical disciplines in the areas of Diagnosis, Treatment Programming or Therapy. The current literature is reviewed and the case discussed.

G-PRAC 5740 Interdisciplinary Seminar I
The integration of common areas of concern in the clinical disciplines of Oral and Maxillofacial Surgery, Orthodontics, Pediatric Dentistry, Periodontics and Prosthodontics as they relate to patient cases. Cases are presented that present problems in at least two clinical disciplines in the areas of Diagnosis, Treatment Programming or Therapy. The current literature is reviewed and the case discussed.

G-PRAC 5899 Required Graduate Enrollment
Oral Biology (OR-BIO)
OR-BIO 5699 Dissertation Research
Ph.D. dissertation research.
**OR-BIO 5700**  Embryonic Development Of The Face And Oral Cavity  
The course presents an in-depth review of the embryonic development of the face, ears, tongue, mandible, maxilla, and teeth and their associated tissues. In addition, the histology of bone and cartilage, both formative and mature, will be discussed at light and electron microscopic levels. Offered: On Demand.

**OR-BIO 5702**  Biomechanics of Mineralized Tissue  
The physical principles underlying mineralized tissue biomechanics will be presented at multiple hierarchies. Details of bone, tooth and joint (with a special emphasis on the TMJ) anatomy and function will be outlined as related to mechanical loading.

**OR-BIO 5899**  Required Graduate Enrollment

**OR-BIO 5899**  Required Graduate Enrollment

**Oral Diagnosis & Medicine (OR-D&M)**  
**OR-D&M 5702**  Advanced Oral Diagnosis/Oral Medicine III  
A continuation of OR DM 701.

**OR-D&M 5702**  Advanced Oral Diagnosis/Oral Medicine III  
A continuation of OR DM 701.

**Oral Radiology (OR-RAD)**  
**OR-RAD 5704**  Oral Radiology Residency I  
Clinical and didactic study of oral radiology.

**OR-RAD 5704**  Oral Radiology Residency I  
Clinical and didactic study of oral radiology.

**OR-RAD 5705**  Oral Radiology Residency II  
Clinical and didactic study of oral radiology.

**OR-RAD 5705**  Oral Radiology Residency II  
Clinical and didactic study of oral radiology.

**OR-RAD 5706**  Oral Radiology Residency III  
Clinical and didactic study of oral radiology.

**OR-RAD 5706**  Oral Radiology Residency III  
Clinical and didactic study of oral radiology.

**OR-RAD 5707**  Oral Radiology Residency IV  
Clinical and didactic study of oral radiology.

**OR-RAD 5707**  Oral Radiology Residency IV  
Clinical and didactic study of oral radiology.

**OR-RAD 5708**  Oral Radiology Residency V  
Clinical and didactic study of oral radiology.

**OR-RAD 5708**  Oral Radiology Residency V  
Clinical and didactic study of oral radiology.

**OR-RAD 5709**  Oral Radiology Residency VI  
Clinical and didactic study of oral radiology.

**OR-RAD 5709**  Oral Radiology Residency VI  
Clinical and didactic study of oral radiology.

**OR-RAD 5716**  Special Problems Oral Radiology I  
Assigned technical problems in oral radiology.
OR-RAD 5716 Special Problems Oral Radiology I
Assigned technical problems in oral radiology.

OR-RAD 5720 Advanced Radiographic Anatomy
Correlation between normal anatomic structures of the head and neck region and the radiographic appearance of these structures on intraoral, panoramic, skull and conventional tomographic projections.

OR-RAD 5720 Advanced Radiographic Anatomy
Correlation between normal anatomic structures of the head and neck region and the radiographic appearance of these structures on intraoral, panoramic, skull and conventional tomographic projections.

OR-RAD 5721 Advanced Radiographic Interpretation
Radiographic interpretation of normal and pathologic processes of the oral and maxillofacial region. Developmental, degenerative, inflammatory, neoplastic, and metabolic conditions of the oral and maxillofacial complex are covered, including conditions involving the temporomandibular joint and paranasal sinuses.

OR-RAD 5721 Advanced Radiographic Interpretation
Radiographic interpretation of normal and pathologic processes of the oral and maxillofacial region. Developmental, degenerative, inflammatory, neoplastic, and metabolic conditions of the oral and maxillofacial complex are covered, including conditions involving the temporomandibular joint and paranasal sinuses.

OR-RAD 5722 Radiation Physics
Basic principles of radiation physics in relation to medical and dental diagnostic radiology are presented. Topics such as the nature of radiation, x-rays and their production, interaction of x-rays with matter, measurement of x-rays, x-ray film and intensifying screens, and image characteristics are presented.

OR-RAD 5722 Radiation Physics
Basic principles of radiation physics in relation to medical and dental diagnostic radiology are presented. Topics such as the nature of radiation, x-rays and their production, interaction of x-rays with matter, measurement of x-rays, x-ray film and intensifying screens, and image characteristics are presented.

OR-RAD 5723 Radiation Biology
This course covers the basic principles of radiation biology, as well as radiation safety and protection. Topics such as theories of radiation action, radiation chemistry, molecular, cellular and tissue effects, early and late effects of radiation, effects of radiation therapy on the oral cavity, and concepts of radiation protection and risk assessment are presented. Satisfactory completion of a project in the area of radiation biology is required for the additional credit hour.

OR-RAD 5723 Radiation Biology
This course covers the basic principles of radiation biology, as well as radiation safety and protection. Topics such as theories of radiation action, radiation chemistry, molecular, cellular and tissue effects, early and late effects of radiation, effects of radiation therapy on the oral cavity, and concepts of radiation protection and risk assessment are presented. Satisfactory completion of a project in the area of radiation biology is required for the additional credit hour.

OR-RAD 5724 Advanced Imaging Modalities
This course will cover basic principles and interpretation of advanced imaging modalities, such as computed tomography, digital radiography, magnetic resonance imaging, nuclear medicine and ultrasound. Applications of these imaging modalities to dentistry will be addressed. Prerequisite: OR RAD 722.

OR-RAD 5724 Advanced Imaging Modalities
This course will cover basic principles and interpretation of advanced imaging modalities, such as computed tomography, digital radiography, magnetic resonance imaging, nuclear medicine and ultrasound. Applications of these imaging modalities to dentistry will be addressed. Prerequisite: OR RAD 722.

Oral Surgery (OR-SURG)
OR-SURG 5700 Principles Of Oral Surgery I
A conference on diagnosis, treatment planning, surgical technique.

OR-SURG 5700 Principles Of Oral Surgery I
A conference on diagnosis, treatment planning, surgical technique.
OR-SURG 5701 Principles Of Oral Surgery II
A continuation of OR-SURG 5700.

OR-SURG 5701 Principles Of Oral Surgery II
A continuation of OR-SURG 5700.

OR-SURG 5702 Principles Of Oral Surgery III
A continuation of OR-SURG 5701.

OR-SURG 5702 Principles Of Oral Surgery III
A continuation of OR-SURG 5701.

OR-SURG 5703 Principles Of Oral Surgery Iv
A continuation of OR-SURG 5702.

OR-SURG 5703 Principles Of Oral Surgery Iv
A continuation of OR-SURG 5702.

OR-SURG 5704 Clinical Oral Surgery I
The clinical application of the principles of diagnosis, treatment planning, and surgical techniques.

OR-SURG 5704 Clinical Oral Surgery I
The clinical application of the principles of diagnosis, treatment planning, and surgical techniques.

OR-SURG 5705 Clinical Oral Surgery II
A continuation of OR-SURG 5704.

OR-SURG 5705 Clinical Oral Surgery II
A continuation of OR-SURG 5704.

OR-SURG 5706 Clinical Oral Surgery III
A continuation of OR-SURG 5705.

OR-SURG 5706 Clinical Oral Surgery III
A continuation of OR-SURG 5705.

OR-SURG 5707 Physical Diagnosis For The Oral & Maxillofacial Surgeon I
Basic physical diagnosis and review of systems as it relates to the practice of Oral and Maxillofacial Surgery.

OR-SURG 5707 Physical Diagnosis For The Oral & Maxillofacial Surgeon I
Basic physical diagnosis and review of systems as it relates to the practice of Oral and Maxillofacial Surgery.

OR-SURG 5708 Physical Diagnosis For The Oral & Maxillofacial Surgeon II
Advanced physical diagnosis and review of systems as it relates to the practice of Oral and Maxillofacial Surgery.

OR-SURG 5708 Physical Diagnosis For The Oral & Maxillofacial Surgeon II
Advanced physical diagnosis and review of systems as it relates to the practice of Oral and Maxillofacial Surgery.

OR-SURG 5709 Physical Diagnosis For The Oral & Maxillofacial Surgeon III
Oral and Maxillofacial Surgery and the medically compromised patient.

OR-SURG 5709 Physical Diagnosis For The Oral & Maxillofacial Surgeon III
Oral and Maxillofacial Surgery and the medically compromised patient.

OR-SURG 5710 Physical Diagnosis For The Oral & Maxillofacial Surgeon Iv
A continuation of OR-SURG 5709.

OR-SURG 5710 Physical Diagnosis For The Oral & Maxillofacial Surgeon Iv
A continuation of OR-SURG 5709.
**OR-SURG 5711** Physical Diagnosis For The Oral & Maxillofacial Surgeon V  
A continuation of OR-SURG 5710.

**OR-SURG 5712** Physical Diagnosis For The Oral & Maxillofacial Surgeon Vi  
A continuation of OR-SURG 5711.

**OR-SURG 5713** Advanced Physical Diagnosis For Oral & Maxillofacial Surgeon I  
Advanced physical diagnosis and review of systems as it relates to the practice of Oral and Maxillofacial Surgery.

**OR-SURG 5714** Advanced Physical Diagnosis For Oral & Maxillofacial Surgeon II  
A continuation of OR-SURG 5713.

**OR-SURG 5716** Special Problems In Oral And Maxillofacial Surgery I

**OR-SURG 5717** Special Problems In Oral And Maxillofacial Surgery II

**OR-SURG 5719** Special Problems - Oral & Maxillofacial Surgery Iv  
A continuation of ORSG 5718.

**OR-SURG 5720** Oral Surgery Hospital Residency I  
Two calendar years of hospital residency in an affiliated teaching hospital. The residency provides additional training in major oral surgery and didactic education in oral surgery and science areas, including anesthesiology, diagnosis, pathology, and radiology.

**OR-SURG 5721** Oral Surgery Hospital Residency II  
A continuation of OR-SURG. 5720.

**OR-SURG 5722** Oral Surgery Hospital Residency III  
A continuation of OR-SURG. 5721.
OR-SURG 5722 Oral Surgery Hospital Residency III
A continuation of OR-SURG. 5721.

OR-SURG 5723 Oral Surgery Hospital Residency IV
A continuation OR-SURG. 5722.

OR-SURG 5723 Oral Surgery Hospital Residency IV
A continuation OR-SURG. 5722.

OR-SURG 5724 Oral Surgery Hospital Residency V
A continuation of OR-SURG. 723.

OR-SURG 5724 Oral Surgery Hospital Residency V
A continuation of OR-SURG. 723.

OR-SURG 5725 Oral Surgery Hospital Residency VI
A continuation of OR-SURG. 5724.

OR-SURG 5725 Oral Surgery Hospital Residency VI
A continuation of OR-SURG. 5724.

OR-SURG 5727 Major Oral Surgery I
A comprehensive study of major oral surgery. Lectures are correlated with surgical exercises which are performed in the anatomy laboratory.

OR-SURG 5727 Major Oral Surgery I
A comprehensive study of major oral surgery. Lectures are correlated with surgical exercises which are performed in the anatomy laboratory.

OR-SURG 5728 Major Oral Surgery II
A continuation of OR-SURG. 5727.

OR-SURG 5728 Major Oral Surgery II
A continuation of OR-SURG. 5727.

OR-SURG 5729 General Anesthesiology And Pharmacology I
The pharmacological principles of the various anesthetic agents and allied medications.

OR-SURG 5729 General Anesthesiology And Pharmacology I
The pharmacological principles of the various anesthetic agents and allied medications.

OR-SURG 5730 General Anesthesiology And Pharmacology II
A continuation of OR-SURG. 5729.

OR-SURG 5730 General Anesthesiology And Pharmacology II
A continuation of OR-SURG. 5729.

OR-SURG 5731 Clinical General Anesthesiology And Pharmacology I
The clinical application of various anesthetic and pharmacological agents.

OR-SURG 5731 Clinical General Anesthesiology And Pharmacology I
The clinical application of various anesthetic and pharmacological agents.

OR-SURG 5732 Clinical General Anesthesiology And Pharmacology II
A continuation of OR-SURG. 5731.

OR-SURG 5732 Clinical General Anesthesiology And Pharmacology II
A continuation of OR-SURG. 5731.

OR-SURG 5733 Clinical General Anesthesiology And Pharmacology III
A continuation of OR-SURG. 5732.
OR-SURG 5733 Clinical General Anesthesiology And Pharmacology III
A continuation of OR-SURG 5732.

OR-SURG 5734 Clinical/Major General Anesthesiology And Pharmacology I
The clinical/major surgical application of various anesthetic and pharmacological agents.

OR-SURG 5734 Clinical/Major General Anesthesiology And Pharmacology I
The clinical/major surgical application of various anesthetic and pharmacological agents.

OR-SURG 5735 Clinical/Major General Anesthesiology And Pharmacology II
A continuation of OR-SURG 5734.

OR-SURG 5735 Clinical/Major General Anesthesiology And Pharmacology II
A continuation of OR-SURG 5734.

OR-SURG 5736 Clinical/Major General Anesthesiology And Pharmacology III
A continuation of OR-SURG 5735.

OR-SURG 5736 Clinical/Major General Anesthesiology And Pharmacology III
A continuation of OR-SURG 5735.

OR-SURG 5737 Pediatric General Anesthesiology And Pharmacology I
The pharmacological principles of various anesthetic agents and allied medications in the pediatric patient.

OR-SURG 5737 Pediatric General Anesthesiology And Pharmacology I
The pharmacological principles of various anesthetic agents and allied medications in the pediatric patient.

OR-SURG 5740 Oral & Maxillofacial Surgery Independent Study
An advanced study and/or elective course in Oral and Maxillofacial Surgery related field(s) which enhances the compulsory curriculum.

OR-SURG 5740 Oral & Maxillofacial Surgery Independent Study
An advanced study and/or elective course in Oral and Maxillofacial Surgery related field(s) which enhances the compulsory curriculum.

OR-SURG 5752 Seminar In Oral Surgery I
A discussion of current literature and research relating to oral surgery.

OR-SURG 5752 Seminar In Oral Surgery I
A discussion of current literature and research relating to oral surgery.

OR-SURG 5753 Seminar In Oral Surgery II
A continuation of OR-SURG. 5752.

OR-SURG 5753 Seminar In Oral Surgery II
A continuation of OR-SURG. 5752.

OR-SURG 5754 Seminar In Oral Surgery III

OR-SURG 5754 Seminar In Oral Surgery III

OR-SURG 5755 Seminar In Oral Surgery IV
A continuation of OR-SURG 5754.

OR-SURG 5755 Seminar In Oral Surgery IV
A continuation of OR-SURG 5754.
Orthodontics (ORTHOD)

ORTHOD 5704 Orthodontics And Dentofacial Orthopedics I
Orthodontic theory, treatment techniques and treatment of patients; includes current and historical concepts.

ORTHOD 5704 Orthodontics And Dentofacial Orthopedics I
Orthodontic theory, treatment techniques and treatment of patients; includes current and historical concepts.

ORTHOD 5705 Orthodontics And Dentofacial Orthopedics II
A continuation of ORTHOD 5704.

ORTHOD 5705 Orthodontics And Dentofacial Orthopedics II
A continuation of ORTHOD 5704.

ORTHOD 5706 Orthodontics And Dentofacial Orthopedics III
A continuation of ORTHOD 5705.

ORTHOD 5706 Orthodontics And Dentofacial Orthopedics III
A continuation of ORTHOD 5705.

ORTHOD 5707 Orthodontics And Dentofacial Orthopedics IV
A continuation of ORTHOD 5706.

ORTHOD 5707 Orthodontics And Dentofacial Orthopedics IV
A continuation of ORTHOD 5706.

ORTHOD 5708 Orthodontics And Dentofacial Orthopedics V
A continuation of ORTHOD 5707.

ORTHOD 5708 Orthodontics And Dentofacial Orthopedics V
A continuation of ORTHOD 5707.

ORTHOD 5709 Orthodontics And Dentofacial Orthopedics VI
A continuation of ORTHOD 5708.

ORTHOD 5709 Orthodontics And Dentofacial Orthopedics VI
A continuation of ORTHOD 5708.

ORTHOD 5710 Orthodontics And Dentofacial Orthopedics VII
A continuation of ORTHOD 5709.

ORTHOD 5710 Orthodontics And Dentofacial Orthopedics VII
A continuation of ORTHOD 5709.

ORTHOD 5711 Orthodontics And Dentofacial Orthopedics VIII
A continuation of ORTHOD 5710.

ORTHOD 5711 Orthodontics And Dentofacial Orthopedics VIII
A continuation of ORTHOD 5710.

ORTHOD 5726 Cephalometric I
An introductory lecture and laboratory course in the principles of radiographic cephalometry and integrated cephalometric analysis.

ORTHOD 5726 Cephalometric I
An introductory lecture and laboratory course in the principles of radiographic cephalometry and integrated cephalometric analysis.

ORTHOD 5727 Cephalometric II
An advanced lecture and laboratory course with emphasis on the use of a computer in cephalometric analysis.
ORTHOD 5727 Cephalometric II
An advanced lecture and laboratory course with emphasis on the use of a computer in cephalometric analysis.

Pedodontics (PEDO)
PEDO 5899 Required Graduate Enrollment

Pediatric Dentistry (PEDS)
Peds 5700 Principles Of Pediatric Dentistry I
Lecture and discussion of the principles of children's dentistry. The subject matter consists of the prevention of disease, child cooperation, diagnosis and treatment planning, treatment and post-treatment procedures.

PEDS 5701 Principles Of Pediatric Dentistry II
A continuation of PEDS 700.

PEDS 5720 Pediatric Dentistry Hospital Residency I
(1). The clinical activities of the program are conducted at Children's Mercy Hospital. Students spend 24 months (6 semesters) as residents in the Department of Pediatric Dentistry. Patient care is provided both in the outpatient clinic and to hospital inpatients. Rotations in anesthesia, pediatrics, and the emergency room are included in the residency. Residents participate on several multidisciplinary teams at the hospital including the Cleft Palate Team, Craniofacial Anomalies Team, Hemophilia Team, Cancer Care Team, Sickle Cell Anemia Team, and the Newborn Intensive Care Follow-up Clinic.

PEDS 5721 Pediatric Dentistry Hospital Residency II
A continuation of PEDS 720.

Periodontics (PERIO)
PERIO 5700 Periodontic Residency I
Didactics, Seminars in Basic Periodontics with Clinical Practice.

PERIO 5701 Periodontal Residency I
Clinical Periodontics with Related Didactics and Seminar. This first year course introduces the incoming advanced education student to the principles and techniques in the field of advanced periodontics.

PERIO 5702 Periodontal Residency II
Clinical Periodontics with Related Didactic and Seminar. This first year course continues the instruction of the advanced education student to the principles and techniques in the field of advanced periodontics. Prerequisite: PERIO 5701

PERIO 5703 Periodontal Residency III
Clinical periodontics, with related didactics and seminar. This first year course continues the instruction of the advanced education student to the principles and techniques in the field of advanced periodontics, and builds upon the material taught in previous courses as well as introduces new information. Offered every winter.

PERIO 5704 Periodontal Residency IV
Clinical periodontics with related didactics and seminar. This second year course is designed to transition the first year student into a second year advanced education student and builds upon the material taught in previous courses as well as introducing new information. Prerequisites: Perio 5701-5703.

PERIO 5704 Periodontal Residency IV
Clinical periodontics with related didactics and seminar. This second year course is designed to transition the first year student into a second year advanced education student and builds upon the material taught in previous courses as well as introducing new
information. Prerequisites: Perio 5701-5703.

**PERIO 5705** Periodontal Residency V
Clinical Periodontics with Related Didactics and Seminar. This second year course continues the instruction of the advanced education student to the principles and techniques in the field of advanced periodontics, and builds upon the material taught in previous courses as well as introducing new information. Prerequisites: PERIO 5701 - PERIO 5704

**PERIO 5705** Periodontal Residency V
Clinical Periodontics with Related Didactics and Seminar. This second year course continues the instruction of the advanced education student to the principles and techniques in the field of advanced periodontics, and builds upon the material taught in previous courses as well as introducing new information. Prerequisites: PERIO 5701 - PERIO 5704

**PERIO 5706** Periodontal Residency VI
Clinical Periodontics with Related Didactics and Seminar. This second year course is designed to build upon the in-depth knowledge base of the advanced education student, as well as introducing new information, transitioning the student into a more proficient student in advanced periodontics. Prerequisites: PERIO 5701 - PERIO 5705

**PERIO 5706** Periodontal Residency VI
Clinical Periodontics with Related Didactics and Seminar. This second year course is designed to build upon the in-depth knowledge base of the advanced education student, as well as introducing new information, transitioning the student into a more proficient student in advanced periodontics. Prerequisites: PERIO 5701 - PERIO 5705

**PERIO 5707** Periodontal Residency VII
Clinical Periodontics with Related Didactics and Seminar. This third year course serves to transition the student into a clinician who by repeated action exhibits in depth levels of knowledge and skill. It builds upon material previously taught. Prerequisites: PERIO 5701 - PERIO 5706

**PERIO 5707** Periodontal Residency VII
Clinical Periodontics with Related Didactics and Seminar. This third year course serves to transition the student into a clinician who by repeated action exhibits in depth levels of knowledge and skill. It builds upon material previously taught. Prerequisites: PERIO 5701 - PERIO 5706

**PERIO 5708** Periodontal Residency VIII
Clinical Periodontics with Related Didactics and Seminar. This third year course builds upon information previously taught and completes the transition of the student into a proficient specialist in Periodontology. Prerequisites: PERIO 5701 - PERIO 5707.

**PERIO 5708** Periodontal Residency VIII
Clinical Periodontics with Related Didactics and Seminar. This third year course builds upon information previously taught and completes the transition of the student into a proficient specialist in Periodontology. Prerequisites: PERIO 5701 - PERIO 5707.

**PERIO 5709** Periodontal Residency IX

**PERIO 5709** Periodontal Residency IX

**PERIO 5719** Implantology
This 2 credit hour seminar is designed for a student in the Advanced Education Program in Periodontology to develop in-depth knowledge of the concepts and theories of implant dentistry as they relate to periodontist. It will provide basic and advanced information and guidance which will serve to complement course work in PERIO 5702 through PERIO 5709, and the clinical implant dentistry experience offered in the program, at a minimum to a level of competency.

**PERIO 5719** Implantology
This 2 credit hour seminar is designed for a student in the Advanced Education Program in Periodontology to develop in-depth knowledge of the concepts and theories of implant dentistry as they relate to periodontist. It will provide basic and advanced information and guidance which will serve to complement course work in PERIO 5702 through PERIO 5709, and the clinical implant dentistry experience offered in the program, at a minimum to a level of competency.

**PERIO 5720** General Anesthesia
A rotation to the Department of Anesthesiology of K.C. Veterans Administration Medical Center. Students become familiar with
operating room procedures, medical emergencies, venipuncture, airway maintenance and pharmaco-physiology of sedative, analgesic and anesthetic agents as well as drug interactions.

PERIO 5720 General Anesthesia
A rotation to the Department of Anesthesiology of K.C. Veterans Administration Medical Center. Students become familiar with operating room procedures, medical emergencies, venipuncture, airway maintenance and pharmaco-physiology of sedative, analgesic and anesthetic agents as well as drug interactions.

PERIO 5727 Introduction To Internal Medicine And Diagnosis I
A seminar on internal medicine, physical diagnosis, laboratory medicine, dermatology and allergy. This course is designed to give the resident a broad knowledge of the above.

PERIO 5727 Introduction To Internal Medicine And Diagnosis I
A seminar on internal medicine, physical diagnosis, laboratory medicine, dermatology and allergy. This course is designed to give the resident a broad knowledge of the above.

PERIO 5728 Introduction To Internal Medicine And Diagnosis II
A continuation of PERIO. 5727.

PERIO 5728 Introduction To Internal Medicine And Diagnosis II
A continuation of PERIO. 5727.

PERIO 5729 Children's Periodontics
Children's periodontal disorders, etiology, diagnosis, and treatment. Emphasis is placed on preventive periodontics and on education of parents and children in oral physiotherapy.

PERIO 5729 Children's Periodontics
Children's periodontal disorders, etiology, diagnosis, and treatment. Emphasis is placed on preventive periodontics and on education of parents and children in oral physiotherapy.

PERIO 5730 Biology Of The Periodontium
Biology of the Periodontium covers the embryology, histology, ultrastructure and biochemistry of stratified squamous epithelium, fibrous connective tissue, bone and cementum. These four tissues are studied in health and during inflammatory disease and healing of surgical wounds. Major emphasis is placed on immune system interactions with bone and fibrous connective tissue components during inflammatory periodontal disease.

PERIO 5730 Biology Of The Periodontium
Biology of the Periodontium covers the embryology, histology, ultrastructure and biochemistry of stratified squamous epithelium, fibrous connective tissue, bone and cementum. These four tissues are studied in health and during inflammatory disease and healing of surgical wounds. Major emphasis is placed on immune system interactions with bone and fibrous connective tissue components during inflammatory periodontal disease.

PERIO 5799 Research And Thesis

PERIO 5799 Research And Thesis

PERIO 5899 Required Graduate Enrollment

PERIO 5899 Required Graduate Enrollment

Dentistry - Research Methodology (RES-ME)
RES-ME 5700 Introduction To Research Methodology
This lecture/discussion course will facilitate student's understanding of terminology and key concepts of research methodology and design. Assigned exercises are designed to demonstrate application of research design principles, and to increase advanced education students' competency in evaluating and planning scientific studies. This knowledge is indispensable for conducting meaningful research in advanced education certificate, masters of doctoral level programs.
**RES-ME 5700** Introduction To Research Methodology
This lecture/discussion course will facilitate student's understanding of terminology and key concepts of research methodology and design. Assigned exercises are designed to demonstrate application of research design principles, and to increase advanced education students' competency in evaluating and planning scientific studies. This knowledge is indispensable for conducting meaningful research in advanced education certificate, masters of doctoral level programs.

**RES-ME 5701** Topics In Advanced Research Methodology
A lecture/seminar course on selected advanced research methodology topics which are to be determined in conjunction with participants. Such topics may include advanced experimental designs in the literature, etc. Prerequisite: Permission of instructor.

**RES-ME 5702** Special Problems In Research Methodology
A student will work with a faculty member on methodological aspects of a research proposal or project. Prerequisite: Permission of instructor.

**RES-ME 5703** Thesis Writing
The methods of preparing, organizing, and presenting research findings using scientific writing format will be reviewed for completing a thesis. This course is required for the Master of Science degrees in Oral Biology and Dental Hygiene Education.

**RES-ME 5704** Introduction To Biostatistics
A lecture/seminar course required for students pursuing a master's degree. This course focuses on an in-depth coverage of statistical designs commonly found in dental research, statistical techniques associated with these designs, application to them via the use of a computer based statistical software analysis package, and the interpretation of statistical tests. Prerequisite(s): RES-ME 5700.

**RES-ME 5705A** Design Of Clinical Research Studies
Students enrolled in this course will learn the elements of a good clinical research study. Additionally, students will develop a draft protocol for a clinical research project, estimate time and budget needs for the project, and be sensitive to ethical issues in the conduct of clinical research.

**RES-ME 5705B** Statistical Analysis For Clinical Research
Techniques for analyzing complex clinical research designs are a major focus of this course. Students will also learn analytic techniques for estimating failure in biomaterials as well as epidemiologic techniques.

**RES-ME 5705C** Introduction To Statistical Software
Students enrolled in this course obtain hands-on experience with comprehensive statistical analysis programs, including SPSS
and SAS. Students will learn to establish and verify data files, generate program files, and develop strategies for documenting files for improved accountability and reproducibility.

**RES-ME 5705C Introduction To Statistical Software**
Students enrolled in this course obtain hands-on experience with comprehensive statistical analysis programs, including SPSS and SAS. Students will learn to establish and verify data files, generate program files, and develop strategies for documenting files for improved accountability and reproducibility.

**RES-ME 5706 Dissertation Writing**
Scientific writing format appropriate for preparing a dissertation will be reviewed. This course is required for the Interdisciplinary Ph.D. degree in Oral Biology.

**School of Education**
**School of Education Graduate Courses**

Education (EDUC)
EDUC 5589AQ Special Topics In Education

EDUC 5589AQ Special Topics In Education

EDUC 5589B Special Topics In Education

EDUC 5589B Special Topics In Education

EDUC 5589LR Special Topics in Education

EDUC 5589MT Special Topics in Education

EDUC 5589Q Special Topics In Education

EDUC 5589Q Special Topics In Education

EDUC 5589R Special Topics in Education

EDUC 5589RD Special Topics in Education

EDUC 5589RH Special Topics In Education

EDUC 5589TL Special Topics in Education

EDUC 5598 Individual Studies
Review of the research trends relative to selected problems in education. By prior arrangement with instructor.

EDUC 5598 Individual Studies
Review of the research trends relative to selected problems in education. By prior arrangement with instructor.
Counseling Psychology and Counselor Education (CPCE)

CPCE 5500 Introduction To Professional Counseling
This course introduces students to the professions of counseling and counseling psychology as practiced in a variety of settings. The course provides an overview of basic concepts of mental health, client problems, history of the profession, ethical and professional standards, counseling in a multicultural and pluralistic society, and licensure and credentialing. The course also orientation to the counseling program at UMKC. May be taken prior to admission.

CPCE 5502 Fndtns Of Elementary & Secondary School Counseling & Guidance
The course will present an overview of theory and practice in the field of school counseling and will examine the roles and functions of guidance counselors. For School Counseling Emphasis only.

CPCE 5503 Psychopathology: Diagnoses And Classification
This course is designed to provide students with an opportunity to study psychopathological patterns, mental disorders, and other reactions in client behavior, which are encountered by therapists, counselors, and psychologists in contemporary psychological service systems. The major focus of the course will be on learning current diagnostic criteria and making differential diagnoses. Attention will also be given to the etiology, development, dynamics, and treatment of psychopathology. In addition, the influence of culture on behavior and treatment will also be discussed. Prereq/Coreq: CPCE 5500

CPCE 5504 School Guidance Programs
CPCE 5504 will provide knowledge and skills in the development and management of school guidance programs, including program planning, implementing and evaluation.

CPCE 5505 Career Development I
Theories of career development and vocational choice and their implications in counseling. Emphasizes knowledge of occupational and career information sources and use of these data by counselors and counseling psychologists. Open to any student who has been admitted to an advanced degree program.

CPCE 5515 Assessment Methods In Professional Counseling
This course provides an understanding of assessment process and assessment techniques. Students will develop skills in selection, administration, and interpretation of representative assessment instruments. Prerequisites: CPCE 5500.
CPCE 5520 Theories Of Counseling
Theoretical positions in counseling; significance of these theories in professional practice. To be taken prior to or concurrent with CPCE 5530 (Methods of Counseling), both of which must be taken prior to Counseling Practicum I, CPCE 5531. Co/Prerequisite: CPCE 5500.

CPCE 5520 Theories Of Counseling
Theoretical positions in counseling; significance of these theories in professional practice. To be taken prior to or concurrent with CPCE 5530 (Methods of Counseling), both of which must be taken prior to Counseling Practicum I, CPCE 5531. Co/Prerequisite: CPCE 5500.

CPCE 5521 Special Counseling Methods - Substance Abuse
Theories and methods of counseling as applied to clients with substance abuse problems. Includes assessment, treatment strategies, and evaluation. Skills practice in implementing methods.

CPCE 5521 Special Counseling Methods - Substance Abuse
Theories and methods of counseling as applied to clients with substance abuse problems. Includes assessment, treatment strategies, and evaluation. Skills practice in implementing methods.

CPCE 5523 Counseling the Older Adult
This course provides an overview of the basic biological, psychological and social aspects of later life as preparation for counseling the diverse older adult population. Current evidence-based theory related to this specific population is presented along with refinement of interpersonal and counseling skills to support counseling intervention with older adults and their families in the multiple contexts they are served. Best practice examples for meeting the needs and providing mental health services to older adults are reviewed.

CPCE 5527 Theory And Methods Of Sexual Counseling
The focus is on sexual development and the acquisition of therapeutic skills to work with problems relating to human sexual functioning and sexual dysfunctions. Co/Prerequisite: CPCE 5520.

CPCE 5527 Theory And Methods Of Sexual Counseling
The focus is on sexual development and the acquisition of therapeutic skills to work with problems relating to human sexual functioning and sexual dysfunctions. Co/Prerequisite: CPCE 5520.

CPCE 5530 Methods Of Counseling
This course is designed to introduce students to the fundamental concepts and methods of counseling. Students will apply ethical and multicultural principles to the helping relationship while learning the basic methods of humanistic, psychodynamic, and cognitive behavioral approaches as they relate to the helping process. A main focus of this course is the acquisition of basic helping skills. Students will also become familiar with counseling outcome research and will increase their level of counselor self-awareness. Pre/co-requisite: CPCE 5520 Offered: Fall, Winter, Summer

CPCE 5531 Counseling Practicum I
Closely supervised therapeutic counseling with individuals; translation of theory into practice; clinical and professional techniques and issues. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Counseling Psychology and Counselor Education Practicum Coordinator required. Co/Prerequisites: CPCE 5553

CPCE 5531 Counseling Practicum I
Closely supervised therapeutic counseling with individuals; translation of theory into practice; clinical and professional techniques and issues. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Counseling Psychology and Counselor Education Practicum Coordinator required. Co/Prerequisites: CPCE 5553

CPCE 5532 Counseling Practicum II
Supervised therapeutic counseling with individuals and consultation in professional settings. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Counseling Psychology and Counselor Education Practicum Coordinator required. Prerequisites: CPCE 5531

CPCE 5532 Counseling Practicum II
Supervised therapeutic counseling with individuals and consultation in professional settings. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Counseling Psychology and Counselor Education Practicum Coordinator required. Prerequisites: CPCE 5531

CPCE 5533 Couples And Family Therapy Practicum
Supervised application of theories and methods of family therapy with individuals, couples and families. Preregistration by
application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisite: CPCE 5532 and CPCE 5542. Co-requisite: CPCE 5541

**CPCE 5533** Couples And Family Therapy Practicum
Supervised application of theories and methods of family therapy with individuals, couples and families. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisite: CPCE 5532 and CPCE 5542. Co-requisite: CPCE 5541

**CPCE 5534** Practicum For The Assessment Of Children And Adolescents
The practicum for assessment of children and adolescents covers the facilitation of psychological evaluations for this population and includes maintaining a caseload of assessment evaluations to complete through the CCS Assessment Center. Specialized assessment evaluations and conceptualization issues are covered in the second half of the course, with evaluations for ADHD and learning disorders emphasized. Special topics will be discussed at the end of the course. Prerequisite: CPCE 5515

**CPCE 5539** Continuing Counseling Practicum
Supervised therapeutic counseling with individuals. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Counseling Psychology and Counselor Education Practicum Coordinator required. Prerequisites: CPCE 5532.

**CPCE 5540** Theories And Methods In Group Counseling
Theories and research in group counseling as related to the work of the counselor and counseling psychologist; establishing and maintaining a counseling group; qualifications of the group leader; goals for group counseling; therapeutic and anti-therapeutic forces in groups; special techniques. Three semester hours of lecture and one semester hour of laboratory experience. The two hours per week in laboratory experience is to practice group techniques. Prerequisite: CPCE 5530.

**CPCE 5541** Couples And Family Therapy
Introduction to family relationships and the application of life cycle stages to working with couples and families. Focus also includes the study of a range of family configurations and issues with attention to diversity.

**CPCE 5542** Theories And Techniques Of Family Systems Therapy
A study of major family systems theories and their applied practices in family therapy. Students will develop skills in family assessment techniques and family therapy processes. Prerequisite: CPCE 5530.

**CPCE 5550** Organization And Administration Of Counseling Programs
Organization, administration, and planning of counseling programs with emphasis on their practical aspect; counseling practice in schools and agencies; intraprofessional relationships; legal and ethical considerations. Course to be taken near completion of the master's program.

**CPCE 5551** Counseling In A Pluralistic Society
Addresses the needs of diverse populations served by counselors and addresses developing intervention methods of working with these populations. Focuses on advocacy and change agent roles of counselors. Prerequisite: CPCE 5520.

**CPCE 5553** Ethics And Professional Issues In Counseling
CPCE 553, Ethics and Professional Issues in Counseling, is designed to examine the major ethical and professional issues within
the counseling profession. More specific, ethical dilemmas and professional issues relevant to the practice of mental health, marriage and family, school and substance abuse counseling are the major foci of this course. In addition, instruction is designed to enhance student understanding of the ethical standards such that students can effectively apply the critical thinking necessary to practice ethical behavior with clients, professional colleagues, consultees, and the communities in which they work.

**CPCE 5553 Ethics And Professional Issues In Counseling**
CPCE 553, Ethics and Professional Issues in Counseling, is designed to examine the major ethical and professional issues within the counseling profession. More specific, ethical dilemmas and professional issues relevant to the practice of mental health, marriage and family, school and substance abuse counseling are the major foci of this course. In addition, instruction is designed to enhance student understanding of the ethical standards such that students can effectively apply the critical thinking necessary to practice ethical behavior with clients, professional colleagues, consultees, and the communities in which they work.

**CPCE 5575A Internship In Counseling I**
First semester of a sequence of applied experiences in a planned, supervised program. Seminar accompanies internship experiences. The following areas of specialization are available: a) Marriage and Family, b) Mental Health, c) School, and d) Substance Abuse. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisite: CPCE 5532 and consent of advisor.

**CPCE 5575B Internship In Counseling II**
Second semester of a sequence of applied experiences in a planned, supervised program. Seminar accompanies internship experiences. The following areas of specialization are available: a) Marriage and Family, b) Mental Health, c) School, and d) Substance Abuse. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisites: Admission to Educational Specialist program in counseling, CPCE 5575A, and consent of advisor.

**CPCE 5575C Internship In Counseling III**
Third semester of a sequence of applied experiences in a planned, supervised program. Seminar accompanies internship experiences. The following areas of specialization are available: a) Marriage and Family, b) Mental Health, c) School, and d) Substance Abuse. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisites: Admission to Educational Specialist program in counseling and consent of advisor.

**CPCE 5589 Special Topics**
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed in the semester bulletin.

**CPCE 5589 Special Topics**
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed in the semester bulletin.

**CPCE 5589CA Special Topics**

**CPCE 5589CA Special Topics**

**CPCE 5589GC Special Topics**

**CPCE 5589NP Special Topics**

**CPCE 5589NP Special Topics**

**CPCE 5589PL Special Topics**

**CPCE 5589SE Special Topics**
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed in the semester schedule.
CPCE 5590 Seminar
Discussion and evaluation of literature in Counseling Psychology and Counselor Education.

CPCE 5590 Seminar
Discussion and evaluation of literature in Counseling Psychology and Counselor Education.

CPCE 5590CF Seminar in Couples and Family Counseling
This is a final seminar for students in the couples and family emphasis area. It is an advanced study of couples and family counseling and related research with a focus on current issues and problems in the profession. Prerequisite: CPCE 5541

CPCE 5590CF Seminar in Couples and Family Counseling
This is a final seminar for students in the couples and family emphasis area. It is an advanced study of couples and family counseling and related research with a focus on current issues and problems in the profession. Prerequisite: CPCE 5541

CPCE 5590GC Seminar in Gerontological Counseling
The final seminar is designed to familiarize students with current topics of interest in the field of gerontological counseling, while preparing them to provide counseling service to a variety of clients. This course should be taken toward the end of the student's program of study. Prerequisite: CPCE 5532. Offered: Every Summer.

CPCE 5590MH Seminar: Seminar In Mental Health Counseling
This is a final seminar for students in the couples and family emphasis area. It is an advanced study of couples and family counseling and related research with a focus on current issues and problems in the profession. Prerequisite: CPCE 5541

CPCE 5590MH Seminar: Seminar In Mental Health Counseling
This final seminar is designed to familiarize students with current topics of interest in the mental health field, while preparing them to provide mental health services to a variety of clients. This course should be taken toward the end of student's program of study. Prerequisites: CPCE 520 w/grade B or better.

CPCE 5598 Individual Studies
Review of the research and trends relative to selected problems. By prior arrangement with instructor.

CPCE 5598 Individual Studies
Review of the research and trends relative to selected problems. By prior arrangement with instructor.

CPCE 5599 Research And Thesis
By arrangement.

CPCE 5599 Research And Thesis
By arrangement.

CPCE 5600 Introduction To Counseling Psychology
Introduction to Counseling Psychology is intended to assist new doctoral students in their orientation to UMKC and to the profession of Counseling Psychology. The course also introduces students to the ethical principles and code of conduct for psychologists. The seminar will require one credit of registration in the Fall semester and is graded on a credit/non credit basis.

CPCE 5605 Career Development II
Major theories and research in vocational psychology and career development and implications for the work of the counseling psychologist and counselor. Prerequisite: CPCE 5505.

CPCE 5605 Career Development II
Major theories and research in vocational psychology and career development and implications for the work of the counseling psychologist and counselor. Prerequisite: CPCE 5505.

CPCE 5609 Assessment II: Intellectual And Cognitive Assessment
This course is designed to provide students with a foundation in the use of intellectual and cognitive assessment instruments in clinical evaluation. The course covers theoretical issues pertinent to intellectual and cognitive assessment as well as basic assessment skills including administration, scoring, interpretation, and communication of results for commonly used measures. Cross-listed with PSYCH 5509. Prerequisites: Admission to the Ph.D Program in Counseling Psychology

CPCE 5609 Assessment II: Intellectual And Cognitive Assessment
This course is designed to provide students with a foundation in the use of intellectual and cognitive assessment instruments in
clinical evaluation. The course covers theoretical issues pertinent to intellectual and cognitive assessment as well as basic assessment skills including administration, scoring, interpretation, and communication of results for commonly used measures. Cross-listed with PSYCH 5509. Prerequisites: Admission to the Ph.D Program in Counseling Psychology

CPCE 5610 Theoretical And Professional Issues In Counseling Psychology
This course is designed to introduce first year doctoral students to the fundamental concepts and methods of psychology conceived as the application of scientific and ethical reasoning to human problems. It will provide an in-depth examination of the American Psychological Association code of ethics and its application to the conduct of psychologists. Critical and analytical thinking will be emphasized in all aspects of the course. The course will cover broad models of clinical and counseling psychology and their historical and scientific foundations, issues in diagnosis, cross-cultural applications and professional problems in light of ethical principles, professional standards, scientific data & multi-cultural contexts. Prerequisite: consent of the instructor. Offered: Fall

CPCE 5611 Objective Personality Assessment
This course is designed to help students develop knowledge and skills related to the selection, administration, and interpretation of some representative objective personality assessment instruments used in counseling/clinical settings. Students will also learn to integrate data obtained from an assessment battery to write comprehensive psychological reports.

CPCE 5615 Survey Of Research In Counseling Psychology
Survey of significant research in counseling psychology. Critical evaluation of research procedures, instrumentation, and clinical application of results. Prerequisites: EDRP 5605 and EDRP 5608.

CPCE 5615 Survey Of Research In Counseling Psychology
Survey of significant research in counseling psychology. Critical evaluation of research procedures, instrumentation, and clinical application of results. Prerequisites: EDRP 5605 and EDRP 5608.

CPCE 5620 Advanced Theories And Methods Of Counseling
Personality and learning theories and their implications for professional practice in counseling psychology. Emphasis on critical evaluation of assumptions, methods, comprehensiveness and usefulness of the theories, with reference to related research. Prerequisite: CPCE 5532

CPCE 5620 Advanced Theories And Methods Of Counseling
Personality and learning theories and their implications for professional practice in counseling psychology. Emphasis on critical evaluation of assumptions, methods, comprehensiveness and usefulness of the theories, with reference to related research. Prerequisite: CPCE 5532

CPCE 5631 Advanced Counseling Practicum
Advanced supervised therapeutic counseling with individuals and supervised consultation in clinical settings. Preregistration by application at least 60 days prior to beginning of semester. (Credit/No Credit) Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisite: Completion of CPCE 5532.

CPCE 5632 Practicum In Group Counseling
Leading groups under supervision. Focus on problems and experiences of counselors and counseling psychologists when leading groups. Prerequisites: Completion of M.A. in Counseling; CPCE 5540. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required.

CPCE 5633 Advanced Couples & Family Practicum
Advanced supervised application of theories and methods of family therapy with individuals, couples and families. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisite: CPCE 5542.

CPCE 5633 Advanced Couples & Family Practicum
Advanced supervised application of theories and methods of family therapy with individuals, couples and families.
Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisite: CPCE 5542.

**CPCE 5634 Practicum For The Assessment Of Children And Adolescents**
The practicum for assessment of children and adolescents covers the facilitation of psychological evaluations for this population and includes maintaining a caseload of assessment evaluations to complete through the CCS Assessment Center. Specialized assessment evaluations and conceptualization issues are covered in the second half of the course, with evaluations for ADHD and learning disorders emphasized. Special topics will be discussed at the end of the course. Prerequisite: CPCE 5515.

**CPCE 5634 Practicum For The Assessment Of Children And Adolescents**
The practicum for assessment of children and adolescents covers the facilitation of psychological evaluations for this population and includes maintaining a caseload of assessment evaluations to complete through the CCS Assessment Center. Specialized assessment evaluations and conceptualization issues are covered in the second half of the course, with evaluations for ADHD and learning disorders emphasized. Special topics will be discussed at the end of the course. Prerequisite: CPCE 5515.

**CPCE 5639 Continuing Advanced Counseling Practicum**
Supervised therapeutic counseling with individuals, beyond the advanced level. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisite: CPCE 5631.

**CPCE 5639 Continuing Advanced Counseling Practicum**
Supervised therapeutic counseling with individuals, beyond the advanced level. Preregistration by application at least 60 days prior to beginning of semester. Approval by the Division of Counseling Psychology and Counselor Education required. Prerequisite: CPCE 5631.

**CPCE 5640 Theories And Methods Of Counseling Supervision**
This course offers an overview of counseling supervision theories and models, and contemporary research. It also addresses supervision process and tasks, diversity in supervision, and supervisor's ethical and legal responsibilities. Prerequisite: CPCE 5631.

**CPCE 5641 Supervision Practicum**
This course is designed to provide students with an opportunity to practice supervision. Students will be assigned 2 to 3 counselors-in-training from a CPCE 5531/5532 practicum class to supervise over the course of a semester. The practicum instructor will provide weekly supervision. Offered: Every Fall Prerequisite: CPCE 5640.

**CPCE 5641 Supervision Practicum**
This course is designed to provide students with an opportunity to practice supervision. Students will be assigned 2 to 3 counselors-in-training from a CPCE 5531/5532 practicum class to supervise over the course of a semester. The practicum instructor will provide weekly supervision. Offered: Every Fall Prerequisite: CPCE 5640.

**CPCE 5645 Projective Testing**
Course focuses on the diagnostic use of projective assessment techniques, with a special focus on the Rorschach Inkblot Test. Prerequisites: Enrolled in Doctoral Psych. Program, Completed CPCE 5515 and Measurement of Intelligence or Cognitive Assessment course.

**CPCE 5645 Projective Testing**
Course focuses on the diagnostic use of projective assessment techniques, with a special focus on the Rorschach Inkblot Test. Prerequisites: Enrolled in Doctoral Psych. Program, Completed CPCE 5515 and Measurement of Intelligence or Cognitive Assessment course.

**CPCE 5650 Seminar In Current Issues In Counseling Psychology**
Professional issues related to counseling psychology. Special emphasis on prevention, consultation, and other professional concerns of counseling psychologists.

**CPCE 5675 Internship In Counseling Psychology**
Applied experiences in a professional setting under supervision of licensed psychologists.

**CPCE 5675 Internship In Counseling Psychology**
Applied experiences in a professional setting under supervision of licensed psychologists.
CPCE 5690 Special Problems
Individual studies; thesis exploration; special reading.

CPCE 5690 Special Problems
Individual studies; thesis exploration; special reading.

CPCE 5699 Research And Dissertation
By arrangement.

CPCE 5699 Research And Dissertation
By arrangement.

CPCE 899 Required Graduate Enrollment

Curriculum & Instruction (EDUC-C&I)
EDUC-C&I 5504 Social Studies In the Schools
Trends and curricular developments in social studies. Focus on the development of social studies concepts, the development of critical thinking skills, and analysis of values.

EDUC-C&I 5505 Introduction To Curriculum Theory
An introduction to curriculum theory with the recognition that knowledge, power, ideology and schooling are connected to patterns of complexity and contradictions. Emphasis will be placed on curricula that cultivate theoretical discourses about the quality and purpose of schooling and human life.

EDUC-C&I 5505 Introduction To Curriculum Theory
An introduction to curriculum theory with the recognition that knowledge, power, ideology and schooling are connected to patterns of complexity and contradictions. Emphasis will be placed on curricula that cultivate theoretical discourses about the quality and purpose of schooling and human life.

EDUC-C&I 5506 Curriculum Design
This course is designed to enhance educators' skills in the areas of curriculum design and interpretation. Students will apply and adapt strategies for curriculum development as well as for interpreting and adapting existing curricula.

EDUC-C&I 5506 Curriculum Design
This course is designed to enhance educators' skills in the areas of curriculum design and interpretation. Students will apply and adapt strategies for curriculum development as well as for interpreting and adapting existing curricula.

EDUC-C&I 5508 Curriculum And Methods For Teaching The Non-Motivated Learner
Analysis of materials relevant to reluctant learners; student-teacher prepared consumable materials; current research; methods for presenting material.

EDUC-C&I 5508 Curriculum And Methods For Teaching The Non-Motivated Learner
Analysis of materials relevant to reluctant learners; student-teacher prepared consumable materials; current research; methods for presenting material.

EDUC-C&I 5509 Reducing Risk Factors For Students In Educational & Community Stn
The course offers an overview of current research and of special programs that deal with students who are likely to fail at school or in life. The roles of the larger society in helping create such problems will be considered. There will be an emphasis on early identification of such students and a consideration and evaluation of a number of programs designed to help them. The course will also present descriptions of the roles that educators can implement in programs designed for prevention and intervention.

EDUC-C&I 5509 Reducing Risk Factors For Students In Educational & Community Stn
The course offers an overview of current research and of special programs that deal with students who are likely to fail at school or in life. The roles of the larger society in helping create such problems will be considered. There will be an emphasis on early identification of such students and a consideration and evaluation of a number of programs designed to help them. The course will also present descriptions of the roles that educators can implement in programs designed for prevention and intervention.

EDUC-C&I 5511 Developing Multidisciplinary Problem Solving Skills
Development of heuristic strategies in problem analysis, information processing, modeling and logical thinking. Study of methods and materials for teaching problem solving strategies, with applications from several school curriculum areas and
EDUC-C&I 5511 Developing Multidisciplinary Problem Solving Skills
Development of heuristic strategies in problem analysis, information processing, modeling and logical thinking. Study of methods and materials for teaching problem solving strategies, with applications from several school curriculum areas and instructional settings. Use of microcomputers to develop skills.

EDUC-C&I 5512 Strategies For Effective Classroom Management
The course presents several current approaches to classroom management and how they might be applied to the classroom. The approaches are evaluated in terms of psychological theory and research. Direct experiences with discipline problems are offered through simulation and role-playing.

EDUC-C&I 5513 Effective Communication In The Classroom
This course will emphasize the relationship between communication and classroom climate, and the influence of communication on motivation and student behavior. Communication with large groups, small groups, and individuals is studied and practiced.

EDUC-C&I 5515 Integrated Arts As A Model For Classroom Instruction
This course provides background on theory, research and practice in arts education. Students will learn to integrate the arts across the curriculum and explore the value of the arts as conveyors of information, powerful tools of communication and bridges to the broader culture. This course will also give the students the opportunity to create, study and experience the arts as a model for classroom instruction.

EDUC-C&I 5517 Teaching Methods And Practices
This course is designed to present and evaluate basic instructional methods and techniques and to determine the ways in which instruction is affected by the social and cultural context of the school. Offered: Every Fall

EDUC-C&I 5520 English Curriculum In The Middle And High School
Advanced study of contemporary programs and procedures in specialized sectors of the secondary school curriculum. Examination of program objectives, teaching methods, and instructional materials in English. Prerequisites: A valid, regular teaching certificate; undergraduate special methods or equivalent; teaching experience or consent of the instructor.

EDUC-C&I 5522 Language Arts Curriculum In The Elementary And Middle School
Consideration of language concepts as they relate to the teaching of the Language Arts in Grades K through 8. Significant research and its application to current trends in teaching the language arts will be explored. Prerequisite: an undergraduate course in Language Arts or reading or consent of the instructor.
research and its application to current trends in teaching the language arts will be explored. Prerequisite: an undergraduate course in Language Arts or reading or consent of the instructor.

**EDUC-C&I 5523** Advanced Literature For Children  
History of children's books. Less well-known works of high quality from countries other than Europe, bilingual, and recent translations of books. Prerequisite: TCH-ED 201 or equivalent.

**EDUC-C&I 5523** Advanced Literature For Children  
History of children's books. Less well-known works of high quality from countries other than Europe, bilingual, and recent translations of books. Prerequisite: TCH-ED 201 or equivalent.

**EDUC-C&I 5531** Diagnosis And Remediation Of Mathematics Learning Problems  
This course addresses the problems of children, youth and adults in basic education, in learning mathematics, whether in the regular classroom or in special environments. Attention is given to the skill of identification of mathematical conceptual levels and to specific difficulties impeding normal progress. There is a focus on methods and materials of remediation in basic skills and concept development. Relevant research literature is examined.

**EDUC-C&I 5531** Diagnosis And Remediation Of Mathematics Learning Problems  
This course addresses the problems of children, youth and adults in basic education, in learning mathematics, whether in the regular classroom or in special environments. Attention is given to the skill of identification of mathematical conceptual levels and to specific difficulties impeding normal progress. There is a focus on methods and materials of remediation in basic skills and concept development. Relevant research literature is examined.

**EDUC-C&I 5536** Specialized Secondary School Curriculum Mathematics  
Advanced study of contemporary programs and procedures in specialized sectors of the secondary school curriculum. Examinations of program objectives, teaching methods and instructional materials in Mathematics. Prerequisites: A valid, regular teaching certificate; undergraduate (Special Methods) or equivalent; teaching experience or consent of the instructor.

**EDUC-C&I 5536** Specialized Secondary School Curriculum Mathematics  
Advanced study of contemporary programs and procedures in specialized sectors of the secondary school curriculum. Examinations of program objectives, teaching methods and instructional materials in Mathematics. Prerequisites: A valid, regular teaching certificate; undergraduate (Special Methods) or equivalent; teaching experience or consent of the instructor.

**EDUC-C&I 5539** Mathematics Curriculum Development  
Application of principles of curriculum development to the mathematics content and instructions. Development of a rationale for objectives and content selection and for evaluation. Study and evaluation of current programs, trends and experiments.

**EDUC-C&I 5539** Mathematics Curriculum Development  
Application of principles of curriculum development to the mathematics content and instructions. Development of a rationale for objectives and content selection and for evaluation. Study and evaluation of current programs, trends and experiments.

**EDUC-C&I 5540** Evaluation Of Computer Software  
The goals of the course are to provide students with a systematic evaluation process which analyzes the hardware resources and application needs of various user groups. This course provides the student with both an academic understanding of evaluation and requirement analysis for educational user groups. The course includes a practicum activity for application projects.

**EDUC-C&I 5540** Evaluation Of Computer Software  
The goals of the course are to provide students with a systematic evaluation process which analyzes the hardware resources and application needs of various user groups. This course provides the student with both an academic understanding of evaluation and requirement analysis for educational user groups. The course includes a practicum activity for application projects.

**EDUC-C&I 5541** Teaching Mathematics With Computer  
The use of a variety of technologies and the appropriate software in teaching secondary mathematics will be investigated and the resulting impact on curriculum will be covered. Prerequisite: Mathematics teaching certificate or the equivalent of an undergraduate degree in mathematics.

**EDUC-C&I 5541** Teaching Mathematics With Computer  
The use of a variety of technologies and the appropriate software in teaching secondary mathematics will be investigated and the resulting impact on curriculum will be covered. Prerequisite: Mathematics teaching certificate or the equivalent of an undergraduate degree in mathematics.
EDUC-C&I 5542 Methods of Teaching English as a Second Language
This course covers the historical and current approaches, methods, and techniques of teaching English to speakers of other languages, from grammar translation to audiolingual and communicative approaches. Additionally, successful classroom practices that address the needs of culturally and linguistically diverse students will be presented.

EDUC-C&I 5543 English Grammar for ESOL Teachers
This course is about teaching English grammar and methods of teaching grammar for graduates, prospective and current teachers of English to speakers of other languages. It includes analysis of the major grammatical structures of American English, discussion of the role of teaching grammar, effective classroom methods and techniques for the English as a second/foreign language classroom.

EDUC-C&I 5544 Theory and Research in Second Language Teaching and Learning
This course covers both second language learning theories and second language research and design. It will also contain a survey of both qualitative and quantitative research literature.

EDUC-C&I 5545 Linguistics for ESOL Teachers
This course is an introduction to linguistic theories focusing on topics that are particularly relevant to ESOL teachers in culturally and linguistically diverse settings. It also covers applying these theories to practice in ESOL classrooms. The contents include basic practical knowledge in phonetics, phonology, morphology, syntax, pragmatics and semantics.

EDUC-C&I 5546 Intercultural communication
This course serves as an introduction to the background of English language learners (ELL) from many countries of the world. It also serves to facilitate ESOL students' success in ELL and mainstream classrooms. The course will introduce culture in general at first and then focus on how to better understand the ELL students' cultures. Class participants will learn to develop lessons that enhance intercultural communication and understanding among all students.

EDUC-C&I 5547 Second Language Acquisition
The course focuses on the foundations of second language learning and teaching. Major theoretical approaches to second language acquisition and second language learning will be discussed. The course is also one of the requirements for an endorsement to teach in English as a second language classroom.

EDUC-C&I 5548 English As A Second Language In Content Areas
Theoretical perspectives of teaching, learning and researching literacy development. The focus of this course will be on content based English as a second language instruction. The course is one of the requirements for an endorsement to teach in an English as a second language classroom.

EDUC-C&I 5549 Practicum In English As A Second Language
A four-week practicum for teachers and researchers in the field of second language learning and teaching. Students will have the opportunity to develop their own teaching plan of action according to the curriculum guidelines of the program in which they participate. Students will develop a portfolio and reflection piece about their own learning in the practicum.
EDUC-C&I 5551 Science Curriculum In The Middle And High School
Advanced study of contemporary programs and procedures in specialized sectors of the secondary school curriculum. Examination of program objectives, teaching methods and instructional materials in Natural Sciences. Prerequisites: A valid, regular teaching certificate; undergraduate special methods or equivalent; teaching experience or consent of the instructor.

EDUC-C&I 5551 Science Curriculum In The Middle And High School
Advanced study of contemporary programs and procedures in specialized sectors of the secondary school curriculum. Examination of program objectives, teaching methods and instructional materials in Natural Sciences. Prerequisites: A valid, regular teaching certificate; undergraduate special methods or equivalent; teaching experience or consent of the instructor.

EDUC-C&I 5553 Curriculum And Instruction In Science
Advanced study of contemporary programs and practices in science education at all instructional levels. Examination of program objectives and teaching methods and development of instructional materials for classroom use. Prerequisites: A science teaching methods course and teaching experience, or consent of instructor.

EDUC-C&I 5553 Curriculum And Instruction In Science
Advanced study of contemporary programs and practices in science education at all instructional levels. Examination of program objectives and teaching methods and development of instructional materials for classroom use. Prerequisites: A science teaching methods course and teaching experience, or consent of instructor.

EDUC-C&I 5554 Assessment In Science Education
Advanced study of science education assessment with option for elementary or secondary emphasis.

EDUC-C&I 5554 Assessment In Science Education
Advanced study of science education assessment with option for elementary or secondary emphasis.

EDUC-C&I 5560 Teaching And Learning In The Urban Classroom
Emphasis will be placed on examining beliefs, assumptions, values and their influence on the processes of teaching, perception of the urban learner, understanding the characteristics of the urban learner, and processes for transforming pedagogical practices, including fostering collaboration between home and school. Prerequisites: Foundations EDUL 5525, 5526, 5527, or 5528 and Instructor Approval.

EDUC-C&I 5561 Teaching Diverse Populations In Today's Classrooms
This course focuses on culturally responsive pedagogies for meeting the academic needs and learning styles of culturally diverse students. Emphasis will be placed on critical investigation of the role of socio-cultural dynamics on learning and teaching, and design of curriculum, materials, and pedagogical and disciplinary practices that affirm students' culture. The ultimate goal of the course is to examine ways in which a culture-based curricular perspective provides powerful scaffolding for enabling and empowering educational experiences for diverse students. Prerequisites: Foundations EDUL 5525, 5526, 5527, or 5528 and Instructor Approval.

EDUC-C&I 5562 Teaching For Equity And Social Justice
This course examines a systems approach to the design, development, assessment, and implementation of school practices that support equity and social justice for all students. It investigates issues of educational inequalities and educational empowerment. Practitioners will develop the knowledge, skills and dispositions needed for empowering self and students. Emphasis will be placed on social action learning, empowerment and agency. Prerequisites: EDUC-UL 5525, EDUC-UL 5526, or EDUC-UL 5528 and EDUC-CL 5560 or EDUC-CL 5561 or EDUC-CL 5562 and Instructor approval. Offered: Summer

EDUC-C&I 5562 Teaching For Equity And Social Justice
This course examines a systems approach to the design, development, assessment, and implementation of school practices that support equity and social justice for all students. It investigates issues of educational inequalities and educational empowerment. Practitioners will develop the knowledge, skills and dispositions needed for empowering self and students. Emphasis will be placed on social action learning, empowerment and agency. Prerequisites: EDUC-UL 5525, EDUC-UL 5526, or EDUC-UL 5528 and EDUC-CL 5560 or EDUC-CL 5561 or EDUC-CL 5562 and Instructor approval. Offered: Summer

EDUC-C&I 5563 Multicultural Perspectives In Education
This course provides an opportunity for students to engage in a critical and in-depth study of multicultural education. Students will examine current theoretical, conceptual, ideological, and political positions that help frame the multicultural education debate. The ultimate goal of the course is to help students develop critical and multiple perspectives about education in a democratic society with the aim of transforming curricular and pedagogical practice. Prerequisites: EDUC-UL 5525, EDUC-UL 5526, EDUC-UL 5527 or EDUC-UL 5528 and EDUC-CL 5560 or EDUC-CL 5561 and instructor approval.
EDUC-C&I 5563 Multicultural Perspectives In Education
This course provides an opportunity for students to engage in a critical and in-depth study of multicultural education. Students will examine current theoretical, conceptual, ideological, and political positions that help frame the multicultural education debate. The ultimate goal of the course is to help students develop critical and multiple perspectives about education in a democratic society with the aim of transforming curricular and pedagogical practice. Prerequisites: EDUC-UL 5525, EDUC-UL 5526, EDUC-UL 5527 or EDUC-UL 5528 and EDUC-CI 5560 or EDUC-CI 5561 and instructor approval.

EDUC-C&I 5565 Social Studies Curriculum Elementary Education
Trends and new curricular developments in elementary school social studies. Focus on integration of social science concepts, the development of critical thinking skills, and analysis of values.

EDUC-C&I 5566 Social Studies Curriculum In The Middle And High School
Advanced study of contemporary programs and procedures in specialized sectors of the secondary school curriculum. Examinations of program objectives, teaching methods, and instructional materials in Social Studies. Prerequisites: A valid, regular teaching certificate; undergraduate special methods or equivalent; teaching experience or consent of the instructor.

EDUC-C&I 5566 Social Studies Curriculum In The Middle And High School
Advanced study of contemporary programs and procedures in specialized sectors of the secondary school curriculum. Examinations of program objectives, teaching methods, and instructional materials in Social Studies. Prerequisites: A valid, regular teaching certificate; undergraduate special methods or equivalent; teaching experience or consent of the instructor.

EDUC-C&I 5570 Curriculum And Instruction In Technology
Study of contemporary programs and practices of technology usage in education at all instructional levels. Examination and application of technologically enhanced teaching methods, assessment, and curriculum development for classroom use. Prerequisites: teaching methods or consent of instructor. Offered: On demand

EDUC-C&I 5570 Curriculum And Instruction In Technology
Study of contemporary programs and practices of technology usage in education at all instructional levels. Examination and application of technologically enhanced teaching methods, assessment, and curriculum development for classroom use. Prerequisites: teaching methods or consent of instructor. Offered: On demand

EDUC-C&I 5571 Cognition & Technology
The purpose of this course is to respond to current research in the field of cognition and educational technology and design an evaluative research response to a local technology program. The educators will define the concepts concerning implementation of new technologies into learning environments and the meditational effects on the types and quality of learning that result from that process.

EDUC-C&I 5571 Cognition & Technology
The purpose of this course is to respond to current research in the field of cognition and educational technology and design an evaluative research response to a local technology program. The educators will define the concepts concerning implementation of new technologies into learning environments and the meditational effects on the types and quality of learning that result from that process.

EDUC-C&I 5572 Assessing The Role Of Technology In Education
The purpose of the course is to develop an understanding of changing role of technology in education by reviewing current and historical articles on the topic. This includes a historical analysis of trends and expectations within educational settings and outside educational settings and defining the educator's understandings of the role of technology in educational settings, past, present and future. Prerequisites: None

EDUC-C&I 5572 Assessing The Role Of Technology In Education
The purpose of the course is to develop an understanding of changing role of technology in education by reviewing current and historical articles on the topic. This includes a historical analysis of trends and expectations within educational settings and outside educational settings and defining the educator's understandings of the role of technology in educational settings, past, present and future. Prerequisites: None

EDUC-C&I 5573 Development Learning Tech Progs:Traditional & Non-Trad Settings
The purpose of this course is to develop understandings of currently implemented educational technologies including both software and hardware configurations. The educators will review current use of a variety of current technologies integrated into
traditional settings and non-traditional settings and evaluate their effectiveness in developing standards-based learning outcomes and constructivist-based learning outcomes.

**EDUC-C&I 5573 Development Learning Tech Progs:Traditional & Non-Trad Settings**
The purpose of this course is to develop understandings of currently implemented educational technologies including both software and hardware configurations. The educators will review current use of a variety of current technologies integrated into traditional settings and non-traditional settings and evaluate their effectiveness in developing standards-based learning outcomes and constructivist-based learning outcomes.

**EDUC-C&I 5575 Internship - Early Childhood**
Applied experiences in a planned, supervised curriculum program. Seminar accompanies internship experiences. Prerequisite: Consent of advisor.

**EDUC-C&I 5576 Administration Of Early Childhood Programs**
This course is designed to examine the administrative functions and decisions involved in effectively directing an Early Childhood Program. Students may plan their own Early Childhood Program incorporating philosophical values and beliefs.

**EDUC-C&I 5577 Early Childhood Special Education Methods**
EDUC-C&I 5577 provides an overview of the field of early childhood special education, with an emphasis on inclusive education for young children ages birth-third grade. This emphasis includes methods and practices for providing services for young children with special needs and their families and the adaptation of developmentally appropriate curriculum and the classroom environment. Historical, political, and theoretical contexts are provided as framework for the course.

**EDUC-C&I 5578 Play In Early Childhood Education**
The purpose of this course is to study the various play theories and developmental levels of play. Students plan play activities and participate in Early Childhood programs.

**EDUC-C&I 5579 History, Theories, And Issues In Early Childhood Education**
This course is designed to explore the historical and theoretical principles in early childhood education. Current issues in the field will be examined and discussed.

**EDUC-C&I 5580 Curriculum In Early Childhood Education**
The content of this course will include an exploration of appropriate curriculum and instruction of early childhood classrooms. Students will recognize, understand and analyze the differences and similarities between early childhood curriculum and instruction methods and elementary education instruction.

**EDUC-C&I 5581 Infant-Toddler Programs: Research Theory And Practice**
This course is designed to investigate the research relevant to infant and toddler programs, learn about the appropriate curriculum and teaching methods, and visit infant and toddler programs.
EDUC-C&I 5581 Infant-Toddler Programs: Research Theory And Practice
This course is designed to investigate the research relevant to infant and toddler programs, learn about the appropriate curriculum and teaching methods, and visit infant and toddler programs.

EDUC-C&I 5582 Program Models In Early Childhood Education
This course is designed to explore and analyze program models in early childhood education in terms of their theoretical and/or philosophical bases and their transformation into practice. During this process, students are encouraged to evaluate their own personal views and values concerning teaching/learning issues in early childhood education.

EDUC-C&I 5582 Program Models In Early Childhood Education
This course is designed to explore and analyze program models in early childhood education in terms of their theoretical and/or philosophical bases and their transformation into practice. During this process, students are encouraged to evaluate their own personal views and values concerning teaching/learning issues in early childhood education.

EDUC-C&I 5583 Supervision In Early Childhood Education
The purpose of this course is to study the process of effective supervision of staff in the diverse contexts of early childhood education. This course is designed to prepare students to supervise teachers, staff, paraeducators, or volunteers in early childhood education programs. Students will explore theories of adult development, the supervision process, professional development, and the evaluation process.

EDUC-C&I 5583 Supervision In Early Childhood Education
The purpose of this course is to study the process of effective supervision of staff in the diverse contexts of early childhood education. This course is designed to prepare students to supervise teachers, staff, paraeducators, or volunteers in early childhood education programs. Students will explore theories of adult development, the supervision process, professional development, and the evaluation process.

EDUC-C&I 5584 Early Childhood Culminating Project
This seminar is designed for graduate students to explore current issues and topics pertaining to the field of early childhood education. An in-depth investigation of ways to work with community agencies will be included.

EDUC-C&I 5584 Early Childhood Culminating Project
This seminar is designed for graduate students to explore current issues and topics pertaining to the field of early childhood education. An in-depth investigation of ways to work with community agencies will be included.

EDUC-C&I 5585 Teaching and Learning with Technology
This is an introductory course that covers the fundamental of standard educational computer applications in addition to providing the basic concepts regarding classroom hardware and software integration. This course familiarizes students with the National Educational Technology Standards For Teachers and Students. Because of the computer's increasing importance in all phases of education, hands-on experiences are required throughout the course.

EDUC-C&I 5586 Multimedia in Education
This course will introduce students to a variety of methods for creating instructional multimedia materials for K-16 classroom use, with a particular emphasis on free and web-based digital editing and conversion programs. Prerequisites: EDUC-C&I 5585 or TCH-ED 385.

EDUC-C&I 5587 Facilitating Technology Implementation
This course will prepare students to facilitate the integration of educational technology in PK-12 settings. Skills taught will include planning and implementing educational technology professional development to classroom teachers and integration strategies that increase the potential for meaningful learning. Prerequisite(s): EDUC-C&I 5585 or TCH-ED 385 Teaching and Learning with Technology.

EDUC-C&I 5589 Special Topics In Education
A course designed to deal with a curriculum topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

EDUC-C&I 5589 Special Topics In Education
A course designed to deal with a curriculum topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

EDUC-C&I 5589AM Special Topics In Education
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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EDUC-C&amp;I 5589AM</td>
<td>Special Topics In Education</td>
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<td>EDUC-C&amp;I 5589CD</td>
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<td>EDUC-C&amp;I 5589EG</td>
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<td>EDUC-C&amp;I 5589ES</td>
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<td>EDUC-C&amp;I 5589HR</td>
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<td>EDUC-C&amp;I 5589IC</td>
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<td>EDUC-C&amp;I 5589ME</td>
<td>Special Topics In Education</td>
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<tr>
<td>EDUC-C&amp;I 5589SC</td>
<td>Special Methods Science</td>
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<td>EDUC-C&amp;I 5589SE</td>
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<td>EDUC-C&amp;I 5589SM</td>
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<tr>
<td>EDUC-C&amp;I 5589SS</td>
<td>Special Methods Social Studies</td>
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**EDUC-C&I 5589TM Special Topics In Education**
A course designed to deal with a curriculum topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

**EDUC-C&I 5589TM Special Topics In Education**
A course designed to deal with a curriculum topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.
EDUC-C&I 5590 Seminar
Discussion and evaluation of literature in curriculum. Prerequisite: EDUC-C&I 5505 or consent of instructor.

EDUC-C&I 5590 Seminar
Discussion and evaluation of literature in curriculum. Prerequisite: EDUC-C&I 5505 or consent of instructor.

EDUC-C&I 5591 Curriculum & Instruction For The 21St Century
A seminar including critical examination of current issues affecting schools such as education for democracy and global interdependence in a diversified society, curriculum and instruction in a technological, post-industrial society; the changing demographics of the U.S. and the implications for curriculum and instruction; and the roles of teachers and administrators in the school of the future. Students will be actively involved in "research-in-action" study of both theory and practice.

EDUC-C&I 5591 Curriculum & Instruction For The 21St Century
A seminar including critical examination of current issues affecting schools such as education for democracy and global interdependence in a diversified society, curriculum and instruction in a technological, post-industrial society; the changing demographics of the U.S. and the implications for curriculum and instruction; and the roles of teachers and administrators in the school of the future. Students will be actively involved in "research-in-action" study of both theory and practice.

EDUC-C&I 5595 Action Research For Practitioners
This course comprises a guided graduate research paper experience. Course participants will work together to plan individual action research studies related to diverse, urban schooling. This course is designed to enable practitioners to engage in systematic inquiry on some aspect of their practice in order to find out more about that practice and eventually improve it. Participants in the course are expected to put their assumptions, ideas and practices to the test by gathering, analyzing and drawing conclusions from evidence. Prerequisites: This course is to be taken during the last year of degree study. Course enrollment requires faculty advisor approval and a minimum 3.0 GPA. Participation in this course entails a field placement for research purposes. If a placement in a school is required, students will need to complete a TB test and submit fingerprints for the standard Background Check process by the start of the semester. Any costs associated with these tests are the responsibility of the student. All course participants are further required to obtain a LiveText subscription.

EDUC-C&I 5595 Action Research For Practitioners
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EDUC-C&I 5596 Classroom Assessment
This course is designed to help practitioners develop an understanding of the various roles of classroom assessment, strengthen their own assessment strategies & be able to better use data in the development of curriculum that is appropriate for all learners. Students will develop a more clear understanding of the relationship of curriculum, instruction & assessment & ways in which good assessments can help diverse learners.

EDUC-C&I 5596 Classroom Assessment
This course is designed to help practitioners develop an understanding of the various roles of classroom assessment, strengthen their own assessment strategies & be able to better use data in the development of curriculum that is appropriate for all learners. Students will develop a more clear understanding of the relationship of curriculum, instruction & assessment & ways in which
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<td>EDUC-C&amp;I 5598</td>
<td>Individual Studies</td>
<td>Review of the research and trends relative to curriculum in education. By prior arrangement with instructor.</td>
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<td>EDUC-C&amp;I 5618</td>
<td>Survey Of Research In Curriculum</td>
<td>Review and analysis of research in curriculum theory and methods.</td>
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<tr>
<td>EDUC-C&amp;I 5618</td>
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<tr>
<td>EDUC-C&amp;I 5619</td>
<td>Systemic Curriculum Evaluation and Review</td>
<td>This course focuses on current practices in systemic curriculum review at the grade, school, district or state level in order to better serve the needs of diverse learners. Emphasis will be placed on the processes of curriculum review, curriculum change, implementation, evaluation of changes, and on-going long-range curriculum planning and review.</td>
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<tr>
<td>EDUC-C&amp;I 5620</td>
<td>Seminars In Theories Related To Curriculum</td>
<td>Study of major historical developments in curriculum and their influence on contemporary models and practices. Prerequisite: EDUC-CI 5504 or EDUC-CI 5505.</td>
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<td>EDUC-C&amp;I 5620</td>
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<td>EDUC-C&amp;I 5626</td>
<td>Seminar in Multicultural Perspectives In Education</td>
<td>This seminar provides an opportunity for student engagement in critical and in-depth study of multicultural perspectives in education. Students will examine current demographic and achievement realities and the theoretical, conceptual, ideological, and political positions that help frame multicultural education. The ultimate goal is to help students develop critical and multiple perspectives about education for a democratic society, and the knowledge, skills and dispositions for transformative intellectualism and change agency. Prerequisites: IPHD Status and Consent of Instructor. Offered: Winter/Summer</td>
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<td>EDUC-C&amp;I 5640</td>
<td>Apprenticeship And Conference In College Training</td>
<td>Apprenticeship experience in preparing, conducting, and evaluating college teaching under the direction of and in conference with supervising professors. Some attention to student personnel and administration in higher education. By arrangement.</td>
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<td>EDUC-C&amp;I 5690</td>
<td>Special Problems</td>
<td>Individual studies: thesis exploration, special reading.</td>
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<td>EDUC-C&amp;I 5697</td>
<td>Dissertation Curriculum And Instruction</td>
<td>By arrangement.</td>
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<td>By arrangement.</td>
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Education Reading (EDRD)

EDRD 5501 Teaching Of Reading
Basic theory and practice in reading instruction, with attention to individual needs. Prerequisite: EDUC 333 or equivalent to TECH-ED 415.

EDRD 5501 Teaching Of Reading
Basic theory and practice in reading instruction, with attention to individual needs. Prerequisite: EDUC 333 or equivalent to TECH-ED 415.

EDRD 5502 Early Literacy and Language Development
This course focuses on the early foundations of literacy. Students will learn the developmental sequence of literacy acquisition, become familiar with early literacy assessments, and develop understanding of the linguistic foundations of literacy processes and instruction. (IRA standards 1.1, 1.3, 1.4, 3.1, 3.2)

EDRD 5502 Early Literacy and Language Development
This course focuses on the early foundations of literacy. Students will learn the developmental sequence of literacy acquisition, become familiar with early literacy assessments, and develop understanding of the linguistic foundations of literacy processes and instruction. (IRA standards 1.1, 1.3, 1.4, 3.1, 3.2)

EDRD 5510 Classroom-Based Literacy Assessment and Intervention
Diagnostic assessment of reading and writing for diverse learners in classroom contexts. This course includes a practicum with a secondary level student. Graduate students will administer individual assessments to a struggling reader, interpret patterns in data indicating strengths and challenges, plan appropriate instruction, monitor the student's progress and write a case study describing the cycle of assessment, teaching and learning. Prerequisites: EDRD 5502 or equivalent coursework.

EDRD 5510 Classroom-Based Literacy Assessment and Intervention
Diagnostic assessment of reading and writing for diverse learners in classroom contexts. This course includes a practicum with a secondary level student. Graduate students will administer individual assessments to a struggling reader, interpret patterns in data indicating strengths and challenges, plan appropriate instruction, monitor the student's progress and write a case study describing the cycle of assessment, teaching and learning. Prerequisites: EDRD 5502 or equivalent coursework.

EDRD 5511 Reading Assessment And Evaluation
Study of procedures and instruments for characterizing and evaluating reading and related educational factors and skills. Students will administer and interpret ability tests customarily used in diagnosing reading problems. Prerequisite: EDUC 5501 or equivalent.

EDRD 5515 Seminar In Reading
Understanding and designing research related to reading and literacy. Topics include research methodologies, understanding research articles, writing literature reviews and designing a research proposal. Prerequisites: EDRD 5510 or equivalent coursework.

EDRD 5520 Practicum in Reading
This course is a supervised field experience for master's students to work with struggling readers in a modified classroom context. Graduate students will be expected to demonstrate their abilities to assess struggling readers, plan appropriate instruction, communicate with peers, and create a literate community for diverse learners. Prerequisites: EDRD 5510 or equivalent coursework.

EDRD 5520 Practicum in Reading
This course is a supervised field experience for master's students to work with struggling readers in a modified classroom context. Graduate students will be expected to demonstrate their abilities to assess struggling readers, plan appropriate instruction, communicate with peers, and create a literate community for diverse learners. Prerequisites: EDRD 5510 or equivalent coursework.

EDRD 5530 Reading Instruction for English Language Learners, K-12
This course investigates ways to differentiate reading instruction to meet needs of English language learners with different levels of language proficiency and at different developmental and academic levels. The course focuses on research findings related to literacy development of diverse learners and ways to strengthen diverse classroom communities.

EDRD 5541 Teaching Reading Improvement: Secondary, College, and Adult Levels
Classroom and laboratory techniques for upper level reading instruction; including study skills; reading speed and flexibility, and vocabulary improvement.

EDRD 5601 Organizing And Guiding The Reading Program
An investigation of several procedures for organizing developmental and special reading programs with emphasis on effects of such plans on the role of the reading specialist and the impact on the school environs. Prerequisites: EDRD 5542 or equivalent.
EDRD 5650 Seminar In Dyslexia And Related Learning Disabilities
A systematic study of the likely etiology and treatment of dyslexia and related learning disabilities. Topics include: hereditary, sensory-motor, perceptual-motor, and psychological and neurophysiological problems. Prerequisite: EDUC 5542 or consent of instructor.

Education Research & Psychology (EDUC-R&P)
EDUC-R&P 5502 Advanced Educational Psychology
Critical examination of the contributions of psychological principles and findings to the field of education.

EDUC-R&P 5508 Principles And Methods Of Research
Introduction to the analysis of research literature including types of research, methodology, design and data analysis.

EDUC-R&P 5510 Child Behavior And Development
Growth, maturation, and learning processes in children.

EDUC-R&P 5512 Adolescent Development And The School
An overview of adolescent development from preadolescence to adulthood, focusing on major theories and aspects of adolescent development, critical issues of adolescence today, and the role of professional educators in facilitating positive development.

EDUC-R&P 5513 Life Span Human Development
This course introduces students to the theories and research of biological, cognitive, social and personality development across the lifespan, within the layers of context of people's lives. Special attention is given to the role in development of social class, gender, ethnicity and culture. Offered: Every Winter

EDUC-R&P 5522 Principles Of Testing
Measurement theory, uses and limitation of assessment procedure.

EDUC-R&P 5555 Statistical Methods II
Non-theoretical approach to statistical procedure, including introduction to factorial ANOVA and multiple regression. Prerequisites: EDRP 5505 or an equivalent introductory statistics course.

EDUC-R&P 5564 Instructional Design
Overview of learning theories and pedagogical models as related to the principles and methods of instructional design. Emphasis on the planning, design, implementation and evaluation of instructional systems including focus on technology integration.
EDUC-R&P 5575 Internship
Applied experiences in a planned, supervised program in research or educational psychology. Prerequisite: Consent of advisor.

EDUC-R&P 5575 Internship
Applied experiences in a planned, supervised program in research or educational psychology. Prerequisite: Consent of advisor.

EDUC-R&P 5576 Educational Technology
History of responsive technology in education, principles of learning and strategies in programming instructional materials, methods of evaluation, and current research methodologies in educational technology.

EDUC-R&P 5576 Educational Technology
History of responsive technology in education, principles of learning and strategies in programming instructional materials, methods of evaluation, and current research methodologies in educational technology.

EDUC-R&P 5589 Special Topics In Education
A course designed to deal with a topic in educational research or educational psychology which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

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EDUC-R&P 5589AD Special Topics in Education

EDUC-R&P 5589AT Special Topics in Education

EDUC-R&P 5589CP Special Topics In Education

EDUC-R&P 5589CP Special Topics In Education

EDUC-R&P 5589DB Special Topics In Education
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EDUC-R&P 5589HL Special Topics in Education

EDUC-R&P 5589IS Special Topics in Education

EDUC-R&P 5589PR Special Topics In Education

EDUC-R&P 5589PR Special Topics In Education

EDUC-R&P 5589SE Special Topics In Education

EDUC-R&P 5589SE Special Topics In Education

EDUC-R&P 5590 Individual Studies
Review of the research and trends relative to selected problems in educational research or psychology: By prior arrangement with
**EDUC-R&P 5590 Individual Studies**
Review of the research and trends relative to selected problems in educational research or psychology: By prior arrangement with instructor.

**EDUC-R&P 5604 Cognitive Processes In Learning And Instruction**
Examination of current research and theory in cognitive aspects of learning, thinking, comprehension and classroom processes, especially as they relate to classroom settings. Designed to present background essential for an understanding of much contemporary inquiry in many fields of educational thought and practice. Prerequisites: EDRP 5502, 5210 and 5512.

**EDUC-R&P 5604 Cognitive Processes In Learning And Instruction**
Examination of current research and theory in cognitive aspects of learning, thinking, comprehension and classroom processes, especially as they relate to classroom settings. Designed to present background essential for an understanding of much contemporary inquiry in many fields of educational thought and practice. Prerequisites: EDRP 5502, 5210 and 5512.

**EDUC-R&P 5605 Quantitative Analysis I: Regression And Analysis Of Variance**
This graduate level statistics course for students in education and the behavioral sciences provides a strong conceptual understanding of two major statistical procedures within the context of the general linear model: multiple regression and numerous analysis of variance (ANOVA) models. Students will learn to select appropriate statistical techniques, test the assumptions of the techniques, analyze data using statistical software, and report the results of their analyses in the format of the American Psychological Association (APA, 2002). Prerequisites: An introductory inferential statistics course EDUC-RP 5505, PSYCH 316 and basic knowledge of research design (EDUC-RP 5505, PSYCH 302). Cross-listed: PSYCH 5516 Offered: Fall.

**EDUC-R&P 5605 Quantitative Analysis I: Regression And Analysis Of Variance**
This graduate level statistics course for students in education and the behavioral sciences provides a strong conceptual understanding of two major statistical procedures within the context of the general linear model: multiple regression and numerous analysis of variance (ANOVA) models. Students will learn to select appropriate statistical techniques, test the assumptions of the techniques, analyze data using statistical software, and report the results of their analyses in the format of the American Psychological Association (APA, 2002). Prerequisites: An introductory inferential statistics course EDUC-RP 5505, PSYCH 316 and basic knowledge of research design (EDUC-RP 5505, PSYCH 302). Cross-listed: PSYCH 5516 Offered: Fall.

**EDUC-R&P 5606 Quantitative Analysis II: Multivariate Data Analysis**
This graduate level statistics course for students in the behavioral sciences and education provides a strong conceptual understanding of advanced topics in regression (interaction effects, logistic regression, path analysis) and various multivariate techniques (MANOVA, canonical correlation, factor analysis). Students will complete a series of data based projects that allow them to demonstrate their skills in analysis, reporting, and interpretation of findings. Prerequisites: EDRP 5605/PSY 5516 and basic knowledge of and SPSS OR SAS software and research design (EDUC-RP 5505, PSYCH 302). Cross-listed: PSYCH 5517 Offered: Winter.

**EDUC-R&P 5606 Quantitative Analysis II: Multivariate Data Analysis**
This graduate level statistics course for students in the behavioral sciences and education provides a strong conceptual understanding of advanced topics in regression (interaction effects, logistic regression, path analysis) and various multivariate techniques (MANOVA, canonical correlation, factor analysis). Students will complete a series of data based projects that allow them to demonstrate their skills in analysis, reporting, and interpretation of findings. Prerequisites: EDRP 5605/PSY 5516 and basic knowledge of and SPSS OR SAS software and research design (EDUC-RP 5505, PSYCH 302). Cross-listed: PSYCH 5517 Offered: Winter.

**EDUC-R&P 5608 Introduction To Graduate Research**
This course provides an introduction to qualitative and quantitative research methods. It is designed for students beginning their study in a doctoral program. Prerequisite: doctoral student status or instructor permission.

**EDUC-R&P 5608 Introduction To Graduate Research**
This course provides an introduction to qualitative and quantitative research methods. It is designed for students beginning their study in a doctoral program. Prerequisite: doctoral student status or instructor permission.

**EDUC-R&P 5609 Development and Evaluation of Assessment Tools**
This survey course examines test theories, construction, and measurement theories. Within the context of a variety of conceptual frameworks and examples, students become knowledgeable about the various purposes, approaches, and computer software tools for measurement. Cross-listed: PSYCH 5538. Prerequisites: EDUC-R&P 5606/PSYCH 5517. Offered: Winter.
EDUC-R&P 5610 Research Design & Methodology
An introduction of methodology and design in the behavioral and health sciences. The course will cover: (a) the key terms and concepts of design and methodology, (b) how to apply those concepts to the construction and criticism of designs, and (c) ethical issues for conducting human and animal research. Cross-listed with PSYCH 5601. Prerequisite: EDUC-RP 5605

EDUC-R&P 5610 Research Design & Methodology
An introduction of methodology and design in the behavioral and health sciences. The course will cover: (a) the key terms and concepts of design and methodology, (b) how to apply those concepts to the construction and criticism of designs, and (c) ethical issues for conducting human and animal research. Cross-listed with PSYCH 5601. Prerequisite: EDUC-RP 5605

EDUC-R&P 5611 Quantitative Analysis III: Introduction to Latent Trait and Multi-Level Modeling
Students will be introduced to modern approaches to modeling latent traits (e.g., confirmatory factor analysis, structural equation models, latent growth models, and/or techniques) and multi-level data (e.g. hierarchical linear models, hierarchical generalized linear models, latent growth curve models, and/or other techniques). Applications with appropriate computer software programs will be featured. Prerequisites: EDRP 5606/PSYCH 5517 and EDRP 5609/PSYCH 5538

EDUC-R&P 5612 Applied Quantitative Research in Education
This class provides an in-depth examination of experimental and non-experimental quantitative research techniques, with a focus on their application in educational research. Students develop a proposal for a quantitative research study, including review of literature, development of research questions and hypotheses; and selection of appropriate research design, data collection techniques, and statistical analyses. Prerequisite: One semester of statistics at the doctoral level.

EDUC-R&P 5615 Qualitative Research Theory & Design Educational Setting. Part 1
Students will be introduced to qualitative research theory and design. Prerequisite: EDUC-RP 5505 and EDUC-RP 5508

EDUC-R&P 5615 Qualitative Research Theory & Design Educational Setting. Part 1
Students will be introduced to qualitative research theory and design. Prerequisite: EDUC-RP 5505 and EDUC-RP 5508

EDUC-R&P 5616 Qual Data Collection And Analysis In Educational Settings. Part 2
Students will gain experience in qualitative data collection and analysis. Prerequisite: EDUC-RP 5615

EDUC-R&P 5616 Qual Data Collection And Analysis In Educational Settings. Part 2
Students will gain experience in qualitative data collection and analysis. Prerequisite: EDUC-RP 5615

EDUC-R&P 5625 Program Evaluation For Education & Social
Program evaluation is an applied research area that focuses on providing summative and formative data about the progress of an organization or program. This doctoral seminar will focus on learning to identify the goals, objectives and assumptions inherent in a program, and on designing a methodology to assess progress towards the goals. All students will develop a comprehensive evaluation plan for a program of their choice. Prerequisites: EDUC-RP 5505, EDUC-RP 5522, and EDUC-RP 5508 or EDUC-RP 5608.

EDUC-R&P 5625 Program Evaluation For Education & Social
Program evaluation is an applied research area that focuses on providing summative and formative data about the progress of an organization or program. This doctoral seminar will focus on learning to identify the goals, objectives and assumptions inherent in a program, and on designing a methodology to assess progress towards the goals. All students will develop a comprehensive evaluation plan for a program of their choice. Prerequisites: EDUC-RP 5505, EDUC-RP 5522, and EDUC-RP 5508 or EDUC-RP 5608.

EDUC-R&P 5639 Educational Psychology: Focus on Teaching in Higher Education
An introduction to theories and principles from educational psychology as they relate to learning, motivation, assessment, and instruction. Prerequisite: Doctoral Student Status

EDUC-R&P 5639 Educational Psychology: Focus on Teaching in Higher Education
An introduction to theories and principles from educational psychology as they relate to learning, motivation, assessment, and instruction. Prerequisite: Doctoral Student Status

EDUC-R&P 5640 Apprenticeship And Conference In College Training
Apprenticeship experience in preparing, conducting, and evaluating college teaching under the direction of and in conference with supervising professors. By arrangement. Pre-requisites: EDUC-RP 5639

EDUC-R&P 5640 Apprenticeship And Conference In College Training
Apprenticeship experience in preparing, conducting, and evaluating college teaching under the direction of and in conference
with supervising professors. By arrangement. Pre-requisites: EDUC-RP 5639

EDUC-R&P 5690 Special Problems
Individual studies; thesis exploration, special reading.

EDUC-R&P 5698 Dissertation In Educational Research & Psychology
By arrangement.

EDUC-R&P 5698 Dissertation In Educational Research & Psychology
By arrangement.

EDUC-R&P 589AS Special Topics In Education

EDUC-R&P 589PA Special Topics In Education

EDUC-R&P 589QD Special Topics

Physical Education (PHYS-ED)
PHYS-ED 5530 Organization And Administration Of Athletics
Organization and management of a program of competitive athletics for schools and colleges.

PHYS-ED 5530 Organization And Administration Of Athletics
Organization and management of a program of competitive athletics for schools and colleges.

Special Education (EDUC-SP)
EDUC-SP 5506 Special Education Law, Individualized Education Programs (IEP's), and Transition
This course provides students with knowledge of special education law, the individualized education program (IEP), and transition-related instruction i.e., preparation for post-high school education employment, independent living, and community integration) for students with disabilities. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observation of meetings with families and other professionals. Prerequisites: Master's student status or consent of instructor.

EDUC-SP 5506 Special Education Law, Individualized Education Programs (IEP's), and Transition
This course provides students with knowledge of special education law, the individualized education program (IEP), and transition-related instruction i.e., preparation for post-high school education employment, independent living, and community integration) for students with disabilities. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observation of meetings with families and other professionals. Prerequisites: Master's student status or consent of instructor.

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This course provides students with knowledge of special education law, the individualized education program (IEP), and transition-related instruction i.e., preparation for post-high school education employment, independent living, and community integration) for students with disabilities. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observation of meetings with families and other professionals. Prerequisites: Master's student status or consent of instructor.

EDUC-SP 5507 Introduction To Mild/Moderate Cross-Categorical Disabilities
This is the initial foundations course in the master's degree sequence in special education of children and youth with mild/moderate disabilities including learning disabilities (LD), emotional/behavioral disorders (EBD), mental retardation (MR), and physical and other health impairments (POHI). It is designed to provide candidates who are new to the field of special education with a foundation for working with students who have exceptional learning needs. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observations and working with children and youth with disabilities. Prerequisite: TE 404/5404

EDUC-SP 5507 Introduction To Mild/Moderate Cross-Categorical Disabilities
This is the initial foundations course in the master's degree sequence in special education of children and youth with mild/moderate disabilities including learning disabilities (LD), emotional/behavioral disorders (EBD), mental retardation (MR), and physical and other health impairments (POHI). It is designed to provide candidates who are new to the field of special education with a foundation for working with students who have exceptional learning needs. Prior to taking the course, a
background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observations and working with children and youth with disabilities. Prerequisite: TE 404/5404

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This is the initial foundations course in the master's degree sequence in special education of children and youth with mild/moderate disabilities including learning disabilities (LD), emotional/behavioral disorders (EBD), mental retardation (MR), and physical and other health impairments (POHI). It is designed to provide candidates who are new to the field of special education with a foundation for working with students who have exceptional learning needs. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observations and working with children and youth with disabilities. Prerequisite: TE 404/5404

EDUC-SP 5508 Assessment for Special Educators
This is a foundations course in the master's degree sequence in special education of children and youth with mild/moderate disabilities. The purpose of this course is to provide understanding and practice in formal and informal evaluation. This course is applicable to candidates who plan to work either directly (special educators) or indirectly (special education administrators) with students with exceptional learning needs and to engage in critical analysis of assessment issues confronting the field of special education. Prior to taking the course, background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observations and working with children and youth with disabilities. Prerequisites: Intro to MM/CC Disabilities & Methods of Teaching Students with MM/CC Disabilities

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This is a foundations course in the master's degree sequence in special education of children and youth with mild/moderate disabilities. The purpose of this course is to provide understanding and practice in formal and informal evaluation. This course is applicable to candidates who plan to work either directly (special educators) or indirectly (special education administrators) with students with exceptional learning needs and to engage in critical analysis of assessment issues confronting the field of special education. Prior to taking the course, background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observations and working with children and youth with disabilities. Prerequisites: Intro to MM/CC Disabilities & Methods of Teaching Students with MM/CC Disabilities

EDUC-SP 5509 Cognition & Lang Dev In Mild/Mod Cross-Categorical Disabilities
This is a specialized methods course in the master's degree sequence in special education of children and youth with mild/moderate disabilities. This course examines normal and atypical development and cultural and linguistic diversity of students with exceptional learning needs. Candidates will practice collaborative and reflective decision-making and problem solving in areas such as: (a) developmentally sequenced activities, (b) receptive and expressive language, and (c) communication and augmentative communication skills. Prerequisites: Intro to MM/CC Disabilities & Methods of Teaching Students with MM/CC Disabilities. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include working observations and working with children and youth with disabilities.

EDUC-SP 5509 Cognition & Lang Dev In Mild/Mod Cross-Categorical Disabilities
This is a specialized methods course in the master's degree sequence in special education of children and youth with mild/moderate disabilities. This course examines normal and atypical development and cultural and linguistic diversity of students with exceptional learning needs. Candidates will practice collaborative and reflective decision-making and problem solving in areas such as: (a) developmentally sequenced activities, (b) receptive and expressive language, and (c) communication and augmentative communication skills. Prerequisites: Intro to MM/CC Disabilities & Methods of Teaching Students with MM/CC Disabilities. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include working observations and working with children and youth with disabilities.

EDUC-SP 5509 Cognition & Lang Dev In Mild/Mod Cross-Categorical Disabilities
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The purpose of this course is to provide a field-based experience in a setting with students with mild/moderate cross-categorical disabilities. This field experience affords candidates classroom experience either in their own instructional settings or under the tutelage of a master teacher. Placement sites reflect the multicultural diversity found in special education classrooms (K-12). Prerequisites: TCH-ED 404 and Introduction to MM/CC Disabilities. Prior to taking this course, a background check must be completed in order to do the required field experience for this course. The practicum will include observations, working with children and youth with disabilities individually and in small groups, as well lesson preparation and presentation.

EDUC-SP 5510 Practicum in Special Education
The purpose of this course is to provide a field-based experience in a setting with students with mild/moderate cross-categorical disabilities. This field experience affords candidates classroom experience either in their own instructional settings or under the tutelage of a master teacher. Placement sites reflect the multicultural diversity found in special education classrooms (K-12). Prerequisites: TCH-ED 404 and Introduction to MM/CC Disabilities. Prior to taking this course, a background check must be completed in order to do the required field experience for this course. The practicum will include observations, working with children and youth with disabilities individually and in small groups, as well lesson preparation and presentation.

EDUC-SP 5510 Practicum in Special Education
The purpose of this course is to provide a field-based experience in a setting with students with mild/moderate cross-categorical disabilities. This field experience affords candidates classroom experience either in their own instructional settings or under the tutelage of a master teacher. Placement sites reflect the multicultural diversity found in special education classrooms (K-12). Prerequisites: TCH-ED 404 and Introduction to MM/CC Disabilities. Prior to taking this course, a background check must be completed in order to do the required field experience for this course. The practicum will include observations, working with children and youth with disabilities individually and in small groups, as well lesson preparation and presentation.

EDUC-SP 5513 Methods Of Teaching Students M/M Cross-Categorical Disabilities
This is the initial methods course in the master's degree sequence in special education of children and youth with mild/moderate disabilities. The central purpose of this course is to present unit-wide academic and behavioral strategies from eclectic theoretical perspectives. Candidates will examine validated practices and learn to apply such practices to plan instruction, deliver instruction, and evaluate student and teacher performance. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observations and working with children and youth with disabilities.

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EDUC-SP 5514 Understanding and Addressing Challenging Behavior in the Classroom
This is a specialized methods course in special education of children and youth with mild moderate disabilities and is designed to provide master's candidates with tools to engage children and youth behavioral assessment strategies and behavior management techniques. Prior to taking the course, a background check must be completed in order to do the required 10-hour field experience for this course. The field experience will include observations and working with children and youth with disabilities.

EDUC-SP 5514 Understanding and Addressing Challenging Behavior in the Classroom
This is a specialized methods course in special education of children and youth with mild moderate disabilities and is designed to
provide master’s candidates with tools to engage children and youth behavioral assessment strategies and behavior management techniques. Prior to taking the course a background check must be completed in order to do the required 10 hour field experience for this course. The field experience will include observations and working with children and youth with disabilities.

**EDUC-SP 5516 Collaborating with Families and Other Professionals**
This is a methods course in the master's degree sequence in special education of children and youth with mild/moderate disabilities. The course presents principles and procedures for fostering collaborative partnerships among family members, caregivers, educators, and human service personnel that lead to outcomes of individual and mutual empowerment. Candidates will engage in reflective thinking on their personal philosophical beliefs and interweave these beliefs with the skills needed to work with the multicultural issues facing families of children and youth with mild/moderate cross-categorical disabilities and other professionals. Prior to taking the course a background check must be completed in order to do the required 10 hour field experience for this course. The field experience will include observations and working with families of children and youth with disabilities and education professionals.

**EDUC-SP 5517 Characteristics, Hist & Thrys: Emotional Disturbance In Children**
An investigation of theories, classification, etiology, incidence, and characteristics of children with emotional/behavioral disorders.

**EDUC-SP 5517 Characteristics, Hist & Thrys: Emotional Disturbance In Children**
An investigation of theories, classification, etiology, incidence, and characteristics of children with emotional/behavioral disorders.

**EDUC-SP 5570 Student Teaching in Special Education**
This is the final clinical course in the master's degree sequence in special education of children and youth with mild/moderate disabilities. The purpose of this course is to provide a field-based experience in a setting where candidates will be fully responsible for designing curriculum and teaching students with mild/moderate cross-categorical disabilities. Placement sites reflect the multicultural diversity found in special education classrooms (K-12). This course requires candidates to apply content learned throughout the master's degree program in an authentic setting. Prior to taking the course a background check must be completed. Student teaching involves a full time commitment to the field for 16 weeks. Prerequisite: EDSP 5510

**EDUC-SP 5570 Student Teaching in Special Education**
This is the final clinical course in the master's degree sequence in special education of children and youth with mild/moderate disabilities. The purpose of this course is to provide a field-based experience in a setting where candidates will be fully responsible for designing curriculum and teaching students with mild/moderate cross-categorical disabilities. Placement sites reflect the multicultural diversity found in special education classrooms (K-12). This course requires candidates to apply content learned throughout the master's degree program in an authentic setting. Prior to taking the course a background check must be completed. Student teaching involves a full time commitment to the field for 16 weeks. Prerequisite: EDSP 5510

**EDUC-SP 5589 Special Topics In Education**
A course designed to deal with a special education topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

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A course designed to deal with a special education topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

**EDUC-SP 5589 Special Topics In Education**
Review of the research and trends relative to selected problems in special education. By prior arrangement with instructor.

**EDUC-SP 5589 Special Topics In Education**
Review of the research and trends relative to selected problems in special education. By prior arrangement with instructor.
Teacher Education (TCH-ED)

TCH-ED 5492 Language Arts Capstone
Designed for students in their last professional semester of the TE program, and are in a full-time student teaching placement. The course will serve as a culminating experience of the major concepts from the previous three semesters. Topics covered include school law, classroom management, working with special needs students, building critical thinking activities into the curriculum, planning and implementing authentic assessments, and examining the obligations, challenges, and realities of the teaching profession. Prerequisite: TE 432 and concurrent enrollment in student teaching.

TCH-ED 5493 Mathematics Capstone
This seminar will develop academic excellence, inquiry and reflective problem solving, and skills to create caring and safe environments. It is designed to complement the student teaching experience through discussing and analyzing school and school-based issues. It is intended to help further development of reflective, critical, and analytical approaches to pedagogical decision making through supportive collaboration. Students are asked to use knowledge of child/adolescent development, learning classroom dynamics, society, history, culture and subject area to analyze classroom situations, and develop and defend alternatives to observed teaching practices and problems. Prerequisites: TE 433 and concurrent enrollment in Student Teaching.

TCH-ED 5495 Science Capstone
This course is a continuation of science teaching methods to prepare prospective middle and high school science teachers with the necessary background knowledge and laboratory skills to become effective professional science teachers. This course is pragmatic in nature to assist you during student teaching and will stress application of inquiry instruction, science assessment, data analysis, and analysis of learning. The blended and online synchronous format allows maximum contract time in a classroom setting. Topics include science safety, classroom management, behavior management, homework, and NSTA position statements, working with students with disabilities and professionalism in science education. The objectives will be addressed in a seminar setting within the context of student teaching. Application of materials developed during science methods and subsequent preparation of the Teacher Work Sample are a major emphasis area. Prerequisites: TE 435 and concurrent enrollment in Student Teaching.

TCH-ED 5496 Social Studies Capstone
This seminar is designed to complement the student teaching experience through the discussion and analysis of school and school-based issues. It is intended to help you further develop a reflective, critical and analytical approach to pedagogical decision making through supportive collaboration. You will be asked to use your knowledge of child/adolescent development, learning, classroom dynamics, society, history, culture and your subject area to analyze classroom situations, and develop and defend alternatives to observed teaching practices and problems. Prerequisites: TE 436 and concurrent enrollment in Student Teaching.

Urban Leadership (EDUC-UL)

EDUC-UL 5501 Foundations Of School Leadership & Organization
Participants will study as cohort team members actively engaged in clinical/practical endeavors in schools, concepts and theories focused: 1) to understand and apply modern leadership and organization development theory in relation to school organizational cultures; 2) to understand both the development of productive school relationships and the theoretical concepts of the legal responsibilities of schools in the society; 3) to develop a plan for principal certification based upon participant needs and experiences; and 4) to build school cultures that are collaborative, participative, reflective, and self renewing.

EDUC-UL 5501 Foundations Of School Leadership & Organization
Participants will study as cohort team members actively engaged in clinical/practical endeavors in schools, concepts and theories focused: 1) to understand and apply modern leadership and organization development theory in relation to school organizational cultures; 2) to understand both the development of productive school relationships and the theoretical concepts of the legal responsibilities of schools in the society; 3) to develop a plan for principal certification based upon participant needs and experiences; and 4) to build school cultures that are collaborative, participative, reflective, and self renewing.

EDUC-UL 5502 Building Administration And Management
Participants will study and apply theories and concepts as members of a Cohort Team doing clinical work in schools designed to study, learn, and practice the management and administrative responsibilities of building level leaders including principal roles, personnel issues, school business management, community relations, supervision of staff, and to know the legal responsibilities relating to teachers, student and public rights. Prerequisite: EDUC-UL 5501

EDUC-UL 5502 Building Administration And Management
Participants will study and apply theories and concepts as members of a Cohort Team doing clinical work in schools designed to study, learn, and practice the management and administrative responsibilities of building level leaders including principal roles, personnel issues, school business management, community relations, supervision of staff, and to know the legal responsibilities relating to teachers, student and public rights. Prerequisite: EDUC-UL 5501
EDUC-UL 5503 Student, Staff And Organization Development
Participants will study as a member of a cohort team doing clinical work in school and developing the ability: 1) to gain knowledge of, and practice in developing "learning organizations"; 2) to assist teachers and other staff members of a school in structuring classrooms around the learning and development of all students; 3) to lead and develop urban schools that are culturally diverse where learner outcomes and performance are not related to race, class, or gender; and 4) to provide leadership related to developing school structures that are outcome oriented. Prerequisites: EDUC-UL 5501 and EDUC-UL 5502

EDUC-UL 5504 Elementary School Administration
Contemporary knowledge, understanding, and competencies for elementary administration. Focus on leadership, communication, group processes, organization, fiscal, and political areas. In addition, basic roles and responsibilities of the school principalship are addressed.

EDUC-UL 5505 Middle School Administration
Middle school goals, effective middle school leadership, change models for staff development, relevant curricula, auxiliary and support systems.

EDUC-UL 5506 Secondary School Administration
Organization and objectives of secondary education; curriculum trends; role analysis; principal-staff relations. Prerequisite: EDUC-UL 5501 or consent of advisor.

EDUC-UL 5507 Instructional Supervision
Principles of supervision, factors influencing effectiveness of instruction, including the evaluation of teachers.

EDUC-UL 5508 Special Education Administration
Provides special educators, special education and regular education administrators with knowledge and experience in the areas of special education process, policy development, data collection and funding, legal issues and program organization. Special emphasis is given to dealing with common problems which arise in public school special education programs.

EDUC-UL 5510 Planning Educational Facilities
Analysis of educational specifications; cooperative planning processes; analysis of trends in school facilities; financial considerations and construction research. Visitation of selected facilities included.
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EDUC-UL 5511 Public School Business Administration
The business related aspects of administering a school district including budgeting and accounting, purchasing, transportation, insurance, and facilities management.

EDUC-UL 5511 Public School Business Administration
The business related aspects of administering a school district including budgeting and accounting, purchasing, transportation, insurance, and facilities management.

EDUC-UL 5512 School Finance
Sources of revenue for public education; distribution of monies for education; budget construction; accounting procedures; and theories for financing education.

EDUC-UL 5512 School Finance
Sources of revenue for public education; distribution of monies for education; budget construction; accounting procedures; and theories for financing education.

EDUC-UL 5513 School Personnel Administration
Study of processes, policies and theory concerned with the personnel function in educational administration. Emphasizes the importance of human resources in developing effective educational systems.

EDUC-UL 5513 School Personnel Administration
Study of processes, policies and theory concerned with the personnel function in educational administration. Emphasizes the importance of human resources in developing effective educational systems.

EDUC-UL 5514 Public Relations In Education
Analysis of various public views on education; mass communications and social change; public relations programs.

EDUC-UL 5514 Public Relations In Education
Analysis of various public views on education; mass communications and social change; public relations programs.

EDUC-UL 5515 Governmental And Legal Aspects Of Education
Current and recent legislation affecting education; court cases related to education; emerging patterns of modern juris-prudence; administrators' responsibilities regarding legal decisions.

EDUC-UL 5515 Governmental And Legal Aspects Of Education
Current and recent legislation affecting education; court cases related to education; emerging patterns of modern juris-prudence; administrators' responsibilities regarding legal decisions.

EDUC-UL 5516 Governmental And Legal Aspects Of Special Education
An examination of current and recent legislation affecting special education; emerging patterns of modern jurisprudence; and special education teacher and administrator legal responsibilities.

EDUC-UL 5516 Governmental And Legal Aspects Of Special Education
An examination of current and recent legislation affecting special education; emerging patterns of modern jurisprudence; and special education teacher and administrator legal responsibilities.

EDUC-UL 5518 Leadership for School Improvement
Course is designed to prepare educational leaders with the knowledge and practical skills needed to lead school-level improvement initiatives within the unique context of the school. Candidates will learn to develop, implement, and assess school improvement strategies in alignment with the district-wide initiatives, and with state and national policies and standards. It is recognized that school improvement is not a linear process and takes place in a complex dynamic environment that recognizes cultural and linguistic diversity. The course will focus on stewardship of the change process to improve the learning outcomes of diverse students, to improve the professional skills of teachers, and to improve the school organization. The course will be offered one time per year. It is required for masters' level students to achieve their initial certification in school administration at the building level. Prerequisites: Admission into the Educational Administration Program.

EDUC-UL 5518 Leadership for School Improvement
Course is designed to prepare educational leaders with the knowledge and practical skills needed to lead school-level improvement initiatives within the unique context of the school. Candidates will learn to develop, implement, and assess school improvement strategies in alignment with the district-wide initiatives, and with state and national policies and standards. It is
recognized that school improvement is not a linear process and takes place in a complex dynamic environment that recognizes cultural and linguistic diversity. The course will focus on stewardship of the change process to improve the learning outcomes of diverse students, to improve the professional skills of teachers, and to improve the school organization. The course will be offered one time per year. It is required for masters’ level students to achieve their initial certification in school administration at the building level. Prerequisites: Admission into the Educational Administration Program.

EDUC-UL 5520 Data Driven Leadership for Reculturing Schools
The challenges facing urban education are complex and may be understood from a myriad of perspectives including historical and socio-cultural underpinnings, economic and political contexts, and pedagogical/achievement orientations. This course will bring together some of these arguments as they relate to what school leaders can do to promote a community of adult leaders who use data to make decisions for the success of all children. Such a challenge includes working as educational leaders to reculture schools to increase opportunities for all students to learn. For some schools this task involves closing the persistent achievement gap that may exist among groups of students which requires disaggregating data by race, ethnicity, socioeconomic status, gender, and special educational needs.

EDUC-UL 5522 School Organizational Culture As The Context Of Change
This course is designed to enable students to understand that schools as organizations develop cultures and that this culture establishes relationships and conditions in schools for students, teachers, and administrators. Students will develop an understanding of the culture of a school and its influence on efforts to achieve substantive change or reform.

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EDUC-UL 5523 Administrative Roles For Instructional Leadership
This course meets a requirement for administrator certification in Missouri and Kansas in the area of school improvement and leadership. The course focuses upon leadership roles necessary for creating a supportive climate for change and for implementing improved instructional programs.

EDUC-UL 5523 Administrative Roles For Instructional Leadership
This course meets a requirement for administrator certification in Missouri and Kansas in the area of school improvement and leadership. The course focuses upon leadership roles necessary for creating a supportive climate for change and for implementing improved instructional programs.

EDUC-UL 5524 Philosophical Inquiry And Education
An examination of issues, problems and controversies discussed in educational and related literature, utilizing criteria and techniques of logical and philosophical analysis. The focus is on the development of critical thinking abilities as applied to theories, positions and arguments in educational and related contexts.

EDUC-UL 5524 Philosophical Inquiry And Education
An examination of issues, problems and controversies discussed in educational and related literature, utilizing criteria and techniques of logical and philosophical analysis. The focus is on the development of critical thinking abilities as applied to theories, positions and arguments in educational and related contexts.

EDUC-UL 5525 Cultural Foundations Of Education
Examines education and schooling as cultural phenomena. This course focuses on an analysis of education and schooling as both cultural transmission and cultural change and the practical implications. Also included is a philosophical/theoretical examination of varying relationships between dominant and minority cultures.

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Examines education and schooling as cultural phenomena. This course focuses on an analysis of education and schooling as both cultural transmission and cultural change and the practical implications. Also included is a philosophical/theoretical examination of varying relationships between dominant and minority cultures.

EDUC-UL 5526 Philosophical Foundations Of Education
Introduction to the study of philosophical problems implicit in educational issues. Focuses on the application of a number of philosophical concepts and skills to a variety of controversies, policies, and theories in education.

EDUC-UL 5526 Philosophical Foundations Of Education
Introduction to the study of philosophical problems implicit in educational issues. Focuses on the application of a number of
philosophical concepts and skills to a variety of controversies, policies, and theories in education.

**EDUC-UL 5527 Historical Foundations Of Education**
Study of the development of educational policy, practice, and theory in relation to changes in social institutions and thought. Focuses on the analysis of contemporary educational problems in the light of historical perspectives.

**EDUC-UL 5527 Historical Foundations Of Education**
Study of the development of educational policy, practice, and theory in relation to changes in social institutions and thought. Focuses on the analysis of contemporary educational problems in the light of historical perspectives.

**EDUC-UL 5528 Sociological Foundations Of Education**
An analysis of issues involving the role of schools in society, the relationship between education and other social institutions, and contemporary social developments which have major implications.

**EDUC-UL 5531 Educational Leadership and Human Resources**
This course has been designed to develop students' proficiencies in school human resource management and its importance to positive outcomes for student learning. The course focuses on human resource components that are essential to effective schools. Prerequisite: Admission into the Educational Administration EdD Program.

**EDUC-UL 5532 Educational Leadership and Organizational Behavior**
This course has been designed to develop the students' proficiencies in school organization and management to provide positive outcomes for student learning. The course focuses upon organizational behavior and development and its components that are essential to effective school. Prerequisites: Admission into the Educational Administration EdD Program.

**EDUC-UL 5534 English Language Learner Program Administration**
Provides educators, administrators, and district officials with knowledge, skills, and dispositions necessary to supervise/manage programs and teachers in elementary, middle, or secondary schools that serve students with limited English proficiency. Participants will study and apply theories and practices related to language acquisition cultural pluralism, multicultural education, family and community engagement, acculturation, assessment, and legal rights and responsibilities relating to English language learners and the school. Prerequisites: Completion of a Bachelor's Degree

**EDUC-UL 5535 Current Topics in Urban School Leadership**
Current Topics in Urban School Leadership

**EDUC-UL 5550 Organization And Administration Of Higher Education**
Organizational patterns; administrative roles and procedures; establishment of policies, institutional development; and public and private financing of higher education.

**EDUC-UL 5550 Organization And Administration Of Higher Education**
Organizational patterns; administrative roles and procedures; establishment of policies, institutional development; and public and private financing of higher education.

**EDUC-UL 5551 Student Affairs Administration In Higher Education**
Study of the objectives, organizational structure, and current issues of student affairs administration as they relate to the academic program, the campus environment, and the needs of students; analysis of the functions of different services.

**EDUC-UL 5551 Student Affairs Administration In Higher Education**
Study of the objectives, organizational structure, and current issues of student affairs administration as they relate to the academic program, the campus environment, and the needs of students; analysis of the functions of different services.

**EDUC-UL 5553 Supervision and Management of People**
The purpose of this course is to provide a broad overview of staffing practices in the field of higher education, especially student affairs. The course will assist students to be better professionals, to learn the literature as it relates to supervision, and to begin basic skill development. Other course content includes issues surrounding staff selection, staff orientation. The course will be open too any graduate student.

**EDUC-UL 5555 Community College**
Investigation of the purposes, programs, and the problems in the American community college movement; analysis of the structure, governance, and financial support of community colleges. Prerequisites: Doctoral status.

**EDUC-UL 5556 The College Student**
An examination of today's college students. Review and study of demographics, relationships of students and colleges, nature of
student communities, new student populations and the impact of college on students and their educational development.

EDUC-UL 5556 The College Student
An examination of today's college students. Review and study of demographics, relationships of students and colleges, nature of student communities, new student populations and the impact of college on students and their educational development.

EDUC-UL 5557 Legal Aspects Of Higher Education
Study of legal issues within higher education. Focus is on state and federal law and regulations as they pertain to issues ranging from academic freedom to governance and administration. Focus on strategies for preventive law is a major component of the course.

EDUC-UL 5558 Advanced Student Development Theory
A focused and in-depth examination of developmental theories related to the college student. This course builds on information presented in EDUL 5556-The College Student. Offered: Winter. Prerequisite: EDUC-UL 5556

EDUC-UL 5558 Advanced Student Development Theory
A focused and in-depth examination of developmental theories related to the college student. This course builds on information presented in EDUL 5556-The College Student. Offered: Winter. Prerequisite: EDUC-UL 5556

EDUC-UL 5559 Current Issues In Community Colleges
A course responsive to the contemporary issues in community college administration, addressing interesting and important topics that fall outside the scope of other courses in the higher education curriculum. Students will have an overview of the role of community colleges within the larger organization of colleges and universities in the U.S. higher education system. Prerequisites: Graduate student status.

EDUC-UL 5559 Current Issues In Community Colleges
A course responsive to the contemporary issues in community college administration, addressing interesting and important topics that fall outside the scope of other courses in the higher education curriculum. Students will have an overview of the role of community colleges within the larger organization of colleges and universities in the U.S. higher education system. Prerequisites: Graduate student status.

EDUC-UL 5559 Current Issues In Community Colleges
A course responsive to the contemporary issues in community college administration, addressing interesting and important topics that fall outside the scope of other courses in the higher education curriculum. Students will have an overview of the role of community colleges within the larger organization of colleges and universities in the U.S. higher education system. Prerequisites: Graduate student status.

EDUC-UL 5560 Leadership In Higher Education
Focus on leadership, connections among different approaches to leadership, different forms of power, and different leadership behaviors. A series of opportunities to think systematically about leadership and to increase a student's personal leadership capacities in higher education will be provided.

EDUC-UL 5560 Leadership In Higher Education
Focus on leadership, connections among different approaches to leadership, different forms of power, and different leadership behaviors. A series of opportunities to think systematically about leadership and to increase a student's personal leadership capacities in higher education will be provided.

EDUC-UL 5562 Gender & Leadership In Educ: Implications For Prof. Effectiveness
This course is for women and men who want to understand better the unique challenges and opportunities facing leaders in today's educational organizations. Exploration of connections between gender and leadership is the focus of study. Students will probe linkages between gender and leadership for their own leadership and for organizational policy and practice.

EDUC-UL 5562 Gender & Leadership In Educ: Implications For Prof. Effectiveness
This course is for women and men who want to understand better the unique challenges and opportunities facing leaders in today's educational organizations. Exploration of connections between gender and leadership is the focus of study. Students will probe linkages between gender and leadership for their own leadership and for organizational policy and practice.

EDUC-UL 5564 History Of Higher Education
Study of the evolution of the constituencies within different types of American higher education institutions. The development of professional, practical, and graduate education will be examined as will 20th century alternatives to the liberal arts colleges and research university models.
EDUC-UL 5564 History Of Higher Education
Study of the evolution of the constituencies within different types of American higher education institutions. The development of professional, practical, and graduate education will be examined as will 20th century alternatives to the liberal arts colleges and research university models.

EDUC-UL 5566 Racial And Ethnic Diversity, And Cultural Understanding
An exploration of the ideological and historical construction of education for social equality, and subsequent issues of race, ethnicity, and class that influence colleges and universities in the U.S. today.

EDUC-UL 5566 Racial And Ethnic Diversity, And Cultural Understanding
An exploration of the ideological and historical construction of education for social equality, and subsequent issues of race, ethnicity, and class that influence colleges and universities in the U.S. today.

EDUC-UL 5567 Higher Education Capstone
This course will provide a culminating experience for students in the Higher Education Masters program. All aspects of higher education administration will be examined and synthesized to enhance student ability to understand and operate in a complex setting. Prerequisites: Final semester of enrollment

EDUC-UL 5567 Higher Education Capstone
This course will provide a culminating experience for students in the Higher Education Masters program. All aspects of higher education administration will be examined and synthesized to enhance student ability to understand and operate in a complex setting. Prerequisites: Final semester of enrollment

EDUC-UL 5570 Administrative Practicum Higher Education
Assigned administrative responsibilities under supervision of practicing higher educational administrator, seminar and written project accompany field experiences. Prerequisite: Consent of advisor.

EDUC-UL 5570 Administrative Practicum Higher Education
Assigned administrative responsibilities under supervision of practicing higher educational administrator, seminar and written project accompany field experiences. Prerequisite: Consent of advisor.

EDUC-UL 5571 Internship In Higher Education
Applied experiences in a planned, supervised program. Seminar accompanies internship experiences. Prerequisite: Consent of advisor.

EDUC-UL 5571 Internship In Higher Education
Applied experiences in a planned, supervised program. Seminar accompanies internship experiences. Prerequisite: Consent of advisor.

EDUC-UL 5572 Higher Education Administration: The Profession
A course to introduce the prospective or new student affairs professional to all facets of higher educational administration. The course provides a balance of presentations by student affairs professionals, participation and observation in a variety of higher education offices and individual research projects. It is anticipated that students will visit several institutions of higher education and will participate in a service-learning project.

EDUC-UL 5572 Higher Education Administration: The Profession
A course to introduce the prospective or new student affairs professional to all facets of higher educational administration. The course provides a balance of presentations by student affairs professionals, participation and observation in a variety of higher education offices and individual research projects. It is anticipated that students will visit several institutions of higher education and will participate in a service-learning project.

EDUC-UL 5574 Administrative Practicum
Assigned administrative responsibilities under supervision of practicing educational administrators seminar and written project accompany field experiences. Prerequisite: Consent of advisor.

EDUC-UL 5574 Administrative Practicum
Assigned administrative responsibilities under supervision of practicing educational administrators seminar and written project accompany field experiences. Prerequisite: Consent of advisor.

EDUC-UL 5575 Internship In Administration
Applied experiences in a planned, supervised educational administration program. Seminar accompanies internship experiences.
Prerequisite: Consent of advisor.

EDUC-UL 5575 Internship In Administration
Applied experiences in a planned, supervised educational administration program. Seminar accompanies internship experiences. Prerequisite: Consent of advisor.

EDUC-UL 5589 Special Topics In Educational Leadership
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

EDUC-UL 5589 Special Topics In Educational Leadership
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

EDUC-UL 5589AD Special Topics In Educational Leadership

EDUC-UL 5589CP Special Topics In Educational Leadership

EDUC-UL 5589CP Special Topics In Educational Leadership

EDUC-UL 5589EA Special Topics In Educational Leadership
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

EDUC-UL 5589EA Special Topics In Educational Leadership
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EDUC-UL 5589ED Special Topics In Educational Leadership
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EDUC-UL 5589EL Special Topics In Educational Leadership
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EDUC-UL 5589EL Special Topics In Educational Leadership
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EDUC-UL 5589ET Special Topics In Educational Leadership
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EDUC-UL 5589ET Special Topics In Educational Leadership
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors, and prerequisites to be listed on the semester bulletin.

EDUC-UL 5589HR Special Topics In Educational Leadership

EDUC-UL 5589LR Special Topics In Educational Leadership
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
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<td>EDUC-UL 5589LR</td>
<td>Special Topics In Educational Leadership</td>
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<tr>
<td>EDUC-UL 5589OB</td>
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<tr>
<td>EDUC-UL 5589SM</td>
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<tr>
<td>EDUC-UL 5590</td>
<td>Seminar</td>
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<td>Discussion and evaluation of literature in Education Administration. Prerequisite: Consent of instructor.</td>
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<tr>
<td>EDUC-UL 5590</td>
<td>Seminar</td>
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<td>Discussion and evaluation of literature in Education Administration. Prerequisite: Consent of instructor.</td>
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<tr>
<td>EDUC-UL 5598</td>
<td>Individual Studies</td>
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<td>Review of the research and trends relative to selected problems in education. By prior arrangement with instructor.</td>
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<td>Individual Studies</td>
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<tr>
<td>EDUC-UL 5601</td>
<td>Research In Education Administration: Qualitative Theory &amp; Design</td>
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<td>First of two courses in advanced qualitative research in higher education and educational administration. Focus is on the theory and design of qualitative work. Students will become familiar with the various ontological, epistemological, and methodological assumptions that guide research in the social sciences and be able to make informed choices about inquiry techniques for dissertation and future research.</td>
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<td>EDUC-UL 5602</td>
<td>Seminar In The History Of American Urban Education</td>
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<td>A study of the historical development of American urban educational institutions and ideas and of how that development is embedded within the broader context of social, political, and economic change in the united States.</td>
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<td>EDUC-UL 5602</td>
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<td>A study of the historical development of American urban educational institutions and ideas and of how that development is embedded within the broader context of social, political, and economic change in the united States.</td>
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<td>EDUC-UL 5603</td>
<td>Research In Education Administration: Qualitative Data &amp; Analysis</td>
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<td>Second of two courses in advanced qualitative research in higher education and educational administration. Focus is on data collection and analysis in qualitative work. Students will become familiar with various data gathering techniques and devices for interpreting qualitative data and drawing meaningful conclusions. This information will guide students in dissertation and future research. Prerequisite: EDUC-UL 5601, or permission of instructor.</td>
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<tr>
<td>EDUC-UL 5603</td>
<td>Research In Education Administration: Qualitative Data &amp; Analysis</td>
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<td>Second of two courses in advanced qualitative research in higher education and educational administration. Focus is on data collection and analysis in qualitative work. Students will become familiar with various data gathering techniques and devices for interpreting qualitative data and drawing meaningful conclusions. This information will guide students in dissertation and future research. Prerequisite: EDUC-UL 5601, or permission of instructor.</td>
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<tr>
<td>EDUC-UL 5604</td>
<td>Introduction to Doctoral Study</td>
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<td>This course is designed as an introductory course in the doctoral sequence for the EdD in Educational Administration with an emphasis in Higher Education. The course is designed to introduce students to the tasks and processes involved in the completion of the doctoral requirements. It is required for all entering doctoral students. Prerequisite: Admission to the doctoral program.</td>
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EDUC-UL 5616 Analysis Of Educational Theory Formation  
Study and application of criteria for evaluating the adequacy of educational theories and evaluating the relevance to theories of research studies.

EDUC-UL 5616 Analysis Of Educational Theory Formation  
Study and application of criteria for evaluating the adequacy of educational theories and evaluating the relevance to theories of research studies.

EDUC-UL 5626 Theory In Educational Administration  
Leadership theories and research; bureaucracy and organizational processes; new directions in organizational analysis; sociological and psychological concepts in school administration. Prerequisites: EDUC-UL 501 or equivalent.

EDUC-UL 5626 Theory In Educational Administration  
Leadership theories and research; bureaucracy and organizational processes; new directions in organizational analysis; sociological and psychological concepts in school administration. Prerequisites: EDUC-UL 501 or equivalent.

EDUC-UL 5627 Advanced Educational Supervision  
Principles and concepts of educational supervision and implementation. Prerequisite: EDUC-UL 5507 or equivalent.

EDUC-UL 5627 Advanced Educational Supervision  
Principles and concepts of educational supervision and implementation. Prerequisite: EDUC-UL 5507 or equivalent.

EDUC-UL 5628 The Superintendancy  
Analysis and overview of the nature, functions and activities of the public school superintendency including: historical and philosophical foundations; board-staff and other governing body relationships and functions; professional staff relations and management; public relations and communication; inter-governmental relations and responsibilities, and the functions of planning, direction and supervision of the instructional enterprise. Prerequisite: Consent of instructor.

EDUC-UL 5628 The Superintendancy  
Analysis and overview of the nature, functions and activities of the public school superintendency including: historical and philosophical foundations; board-staff and other governing body relationships and functions; professional staff relations and management; public relations and communication; inter-governmental relations and responsibilities, and the functions of planning, direction and supervision of the instructional enterprise. Prerequisite: Consent of instructor.

EDUC-UL 5634 Faculty & Curricular Issues Higher Education  
This course will explore different facets of college and university curricula. This course will include varying ways curriculum has been structured and the debates that have surrounded the structure and content. Faculty issues will be explored via the curriculum and will include a focus on workload policies and practices. Prerequisite: Admission to the doctoral program.

EDUC-UL 5635 Topics In Higher Education  
Organization of higher education, public and private financing; accreditation; academic freedom; policy development; community relations; curricular patterns, selected current issues. Prerequisite: EDUC-UL 5550 or equivalent.

EDUC-UL 5635 Topics In Higher Education  
Organization of higher education, public and private financing; accreditation; academic freedom; policy development; community relations; curricular patterns, selected current issues. Prerequisite: EDUC-UL 5550 or equivalent.

EDUC-UL 5636 Policy Issues in Higher Education  
This course is intended for those whose roles as educational leaders requires them to participate in the analysis and development of policies associated with educational programs and practice. Students will be able to understand the characteristics of a well developed policy agenda, obstacles to policy implementation, and interpretations related to policy implementation. Concurrently, institutional, political, economic, social, and moral consequences of various policies will be explored. Prerequisite: Admission to the doctoral program.

EDUC-UL 5636 Policy Issues in Higher Education  
This course is intended for those whose roles as educational leaders requires them to participate in the analysis and development of policies associated with educational programs and practice. Students will be able to understand the characteristics of a well developed policy agenda, obstacles to policy implementation, and interpretations related to policy implementation. Concurrently, institutional, political, economic, social, and moral consequences of various policies will be explored. Prerequisite: Admission to the doctoral program.
EDUC-UL 5637 Community College
Investigation of the purposes, programs, and the problems in the American community college movement; analysis of the structure, governance, and financial support of community colleges. Prerequisites: Doctoral status.

EDUC-UL 5640 Apprenticeship And Conference In College Training
Apprenticeship experience in preparing, conducting, and evaluating college teaching under the direction of and in conference with supervising professors. Some attention to student personnel and administration in higher education. By arrangement.

EDUC-UL 5652 Financial Aspects Of Higher Education
This course is designed for graduate students with a basic understanding of the area of Higher Education Administration. The course examines basic concepts and principles of finance in higher education in the United States. Students are expected to: Develop an understanding of 1) the issues and fiscal problems of higher education, 2) the roles and responsibilities of financial officers in higher education, and 3) possible future trends in the financing of higher education. Prerequisites: Doctoral status.

EDUC-UL 5655 Studies In Philosophy Of Education
Study of special topics in the philosophy of education. Prerequisite: EDUC-UL 5523, EDUC-UL 5526 or permission of instructor.

EDUC-UL 5660 Effective Practices II
This course builds on the general understanding of leadership and professional practices developed in Leadership in Education Effective Practices I. The course addresses key leadership challenges and decision making in today's complex work world. The course uses reading on selected issues, case discussions, and role plays to move beyond theory and understanding to application and effectiveness.

EDUC-UL 5665 The Urban University
This course examines the development and unique aspects, characteristics and role of the urban university. In addition to an exploration of the historical relationship between urbanization in American society and university development and evolution, seminars will focus attention on undergraduate and graduate education, faculty development, community relations, and regional and economic development for urban institutions. Prerequisite: Doctoral status

EDUC-UL 5685 Problems And Issues In Education & Urban Leadership
This course serves as the capstone class for all doctoral students in education. The course requires analysis of successful dissertations in urban education and prepares students to write their own dissertation relative to urban study and education.
dissertations in urban education and prepares students to write their own dissertation relative to urban study and education.

**EDUC-UL 5690 Special Problems**
Individual studies; thesis exploration, special reading.

**EDUC-UL 5690 Special Problems**
Individual studies; thesis exploration, special reading.

**EDUC-UL 5690A Special Problems**
Individual studies; thesis exploration, special reading.

**EDUC-UL 5690A Special Problems**
Individual studies; thesis exploration, special reading.

**EDUC-UL 5696 Dissertation Administration And Community Leadership**
Culminating written research project for doctoral students in Urban Leadership and Policy Studies. Consent of advisor.

**EDUC-UL 5696 Dissertation Administration And Community Leadership**
Culminating written research project for doctoral students in Urban Leadership and Policy Studies. Consent of advisor.

*School of Graduate Studies*
*School of Graduate Studies Courses*

**School of Graduate Studies (SGS)**

**SGS 5501 Disability And Community Support**
SGS 501 Disability & Community Support is an academic service-learning course that will integrate 15 classroom contact hours with 60 service hours within a framework of Disability Studies. Offered: On Demand Prerequisites: Law 815S or PSYCH 541 /SOC-WK 580B

**SGS 5501 Disability And Community Support**
SGS 501 Disability & Community Support is an academic service-learning course that will integrate 15 classroom contact hours with 60 service hours within a framework of Disability Studies. Offered: On Demand Prerequisites: Law 815S or PSYCH 541 /SOC-WK 580B

**SGS 5550A Responsible Conduct of Research: An Introductory Overview**
The aim of this course is to introduce its participants to the concept of the responsible conduct of research, its core elements, the emerging guidelines and the relevant institutional policies and procedures. It will also address how these concerns affect the researcher and the conduct of his/her/ day-to-day activities.

**SGS 5550B Responsible Conduct of Research: Human Subjects Research**
The involvement of human subjects in research is a basic feature of a wide range of academic disciplines, including research conducted within the bio-medical sciences, social/behavioral sciences, education, and the humanities. The aim of this one-credit course is to explore the responsibilities, commitments and obligations of the researcher who engages in research with human subjects.

**SGS 5550C Responsible Conduct of Research: Research Involving Animals**
The use of animals in research is characteristic of many academic disciplines, including but not limited to medicine, biological sciences, nursing, psychology, and pharmacy. The aim of this course is to explore the responsibilities, commitments and obligations of the researcher who engages in research with laboratory animals.

**SGS 5550D Responsible Conduct of Research: Threats to Research Integrity-Conflicts of Interest and Scientific**
The conduct of research requires that investigators maintain the trust, confidence and support of their peers, their funding sources, and the public at large. Failing to deal with conflicts of interest and scientific misconduct represent, perhaps, the greatest threat to the relationship of trust. This course address, from both a regulatory and process perspective, issues related the identification, prevention and management of conflicts of interest and the prevention and appropriate responses to allegations of scientific misconduct.

**SGS 5550E Responsible Conduct of Research: Conducting Research**
This course addresses a variety of issues related to the initiation and management of research projects. Topics include the proper methods for the handling of the data; mentoring of research staff and trainees; collaboration amongst researchers, and the proper
management of research funds.

**SGS 5550F Responsible Conduct of Research: Reviewing and Reporting Research**
This course addresses the topic of communication and dissemination of research results. Topics include the responsibility of researchers and scholars for assigning appropriate authorship, reviewing research studies for publication, grant application reviews and communication issues.

**SGS 5590A Special Topics**

**SGS 5590B Special Topics**

**SGS 5590C Special Topics**

**SGS 5590D Special Topics**

**SGS 5590E Special Topics**

**SGS 5590F Special Topics**

**SGS 5651A Preparing Future Faculty I**
Course is the first in a 6-course series focusing on teaching at a college or university and exploring the opportunities at, and differences among, various types of institutions of higher education. Course development and exploring the various roles and responsibilities of university faculty members are the emphases of the first two courses. Offered on credit/no credit basis. Prerequisite: Year I Preparing Future Faculty Fellow or doctoral student recommended by two faculty members in student's doctoral program and permission of instructor. 1 credit hour.

**SGS 5651B Preparing Future Faculty II**
Course is the second in a 6-course series focusing on teaching at a college or university and exploring the opportunities at, and differences among, various types of institutions of higher education. Course development and exploring the various roles and responsibilities of university faculty members are the emphases of the first two courses. Offered on credit/no credit basis. Prerequisite: SGS 5651A. 1 credit hour.

**SGS 5652A Preparing Future Faculty III**
Course is the third in a 6-course series focusing on teaching at a college or university and exploring the opportunities at, and differences among, various types of institutions of higher education. The emphasis in SGS 5652A and SGS 5652B is on the teaching/classroom experience including using technology effectively. Students may enroll simultaneously in SGS5651A and SGS5652A. Offered on credit/no credit basis. Prerequisite: Year 2 Preparing Future Faculty Fellow, or recommendation by two
SGS 5652B Preparing Future Faculty IV
Course is the fourth in a 6-course series focusing on teaching at a college or university and exploring the opportunities at, and differences among, various types of institutions of higher education. The emphasis in SGS 5652A and SGS 5652B is on the teaching/classroom experience with a focus on using technology effectively. Students who have completed SGS5651A and SGS5652A may enroll simultaneously in SGS5651B and SGS5652B. Offered on credit/no credit basis. Prerequisite: SGS 5652A and permission of instructor. 1 credit hour.

SGS 5653A Preparing Future Faculty V
Course is the fifth in a 6-course series focusing on teaching at a college or university and exploring the opportunities at, and differences among, various types of institutions of higher education. The emphasis in SGS 5653A and SGS 5653B is on academic collaboration and preparing for the academic job market. Offered on credit/no credit basis. Students may enroll simultaneously in SGS5652A and SGS5653A. Prerequisite: EDUC-R&P 5639 (or approved alternate) and either Preparing Future Faculty Fellow or recommendation by two faculty members in student's doctoral program and permission of instructor. 1 credit hour.

SGS 5653B Preparing Future Faculty VI
Course is the last in a 6-course series focusing on teaching at a college or university and exploring the opportunities at, and differences among, various types of institutions of higher education. The emphasis in SGS 5653A and SGS 5653B is on academic collaboration and preparing for the academic job market. Offered on credit/no credit basis. Students who have completed SGS5652A and SGS5653A may enroll simultaneously in SGS5652B and SGS5653B. Prerequisite: SGS 5653A and permission of instructor. 1 credit hour.

School of Medicine
School of Medicine Courses

**Anesthesia (ANESTH)**
ANESTH 5503 Physical Methods for Anesthesiologist Assistants
Basic concepts underlying anesthesia delivery equipment, proper functioning, environmental factors, and safety. Physical science concepts in electricity, gas/liquid interfaces, statistics and computer systems applicable to anesthesiology are covered. Prerequisites: Consent of the department

ANESTH 5503 Physical Methods for Anesthesiologist Assistants
Basic concepts underlying anesthesia delivery equipment, proper functioning, environmental factors, and safety. Physical science concepts in electricity, gas/liquid interfaces, statistics and computer systems applicable to anesthesiology are covered. Prerequisites: Consent of the department

ANESTH 5518 Professionalism for the Anesthesiologist Asst I
Special areas of Anesthesiologist Assistant practice; including ethical and professional behavior, legal obligations of anesthetists and patient, and the social and community contexts of health care. Prerequisites: acceptance into MSA program.

ANESTH 5528 Professionalism for the Anesthesiologist Asst II
Special topics in Anesthesiologist Assistant practice; impact of substance abuse, cognitive deficiency and mental illness in creating an impaired provider. Prerequisites: acceptance into MSA program.

ANESTH 5538 Professionalism for the Anesthesiologist Asst III
Special topics in Anesthesiologist Assistant practice; principles of evidence based medicine and approaches to mastering lifelong learning and maintaining professional competencies. Prerequisites: acceptance into MSA program.

ANESTH 5541 Methods of Anesthesia I
Addresses intraoperative monitoring for complicated patients and complex surgical procedures. Advanced and supplemental monitors and devices used in the operating room are studied with respect to principles of operation, calibration and interpretation of data. Prerequisite: ANES 5540

ANESTH 5541 Methods of Anesthesia I
Addresses intraoperative monitoring for complicated patients and complex surgical procedures. Advanced and supplemental monitors and devices used in the operating room are studied with respect to principles of operation, calibration and interpretation of data. Prerequisite: ANES 5540
ANESTH 5556 Physiology for Anesthesiologist Assistants I
Basic and applied human systems physiology with emphasis on topics and areas of special concern to the anesthetist. Prerequisites: Consent of the department

ANESTH 5557 Physiology for Anesthesiologist Assistants II
Applied Physiology for Anesthesiologist Assistants II. Continuation of ANES 5556. Prerequisites: ANES 5503 and ANES 5556

ANESTH 5558 Anesthesia & Co-existing Disease I
The essential link from basic anatomy and physiology to anesthesia care. Prerequisite: ANES 5556

ANESTH 5559 Anesthesia & Co-existing Disease II
The essential link from basic anatomy and physiology to anesthesia care. Prerequisite: ANES 5558

ANESTH 5560 Introduction to Anesthesia
Introduction to basic concepts dealing with clinical anesthesia. Medical terminology, human anatomy, medical chart interpretation and drug dosage calculations. Prerequisites: Consent of the department.

ANESTH 5561 Orientation to Simulation and Clinical Application
A skills lab based course to prepare students for anesthesia patient care in the operating room. Classroom, simulation laboratory and actual operating room environments will be used to teach preoperative assessment, IV placement techniques, airway management, intraoperative patient care and post-operative management. BLS (Basic Life Support) certification is a course requirement. Prerequisite: Consent of the department.

ANESTH 5562 Anesthesia Clinical Correlation I
A series of conferences presented by faculty and students that applies to anesthetic theory as it relates to the clinical experience. Specific anesthetic situations are emphasized. Prerequisite: ANESTH 5560.

ANESTH 5563 Anesthesia Clinical Experience I
A continuation of the preparation, observation and hands-on learning format initiated in ANESTH 5561. Patient management and technical skills are refined with close attention to the didactic course work. A comprehensive clinical examination is administered at the end of the semester. ACLS (Advanced Cardiac Life Support) certification is required for course completion. Prerequisite: ANESTH 5561. BLS certification.

ANESTH 5564 Anesthesia Clinical Correlation II
A spectrum of case presentation conferences presented by the faculty and students dealing with basic and major problems in anesthesia management. Medical and surgical history of individual patients and the outcomes of anesthesia and surgery are emphasized. Journal Club and M&M conferences are included. Prerequisite: ANES 5562

ANESTH 5565 Anesthesia Clinical Experience II
ANES 5565 Anesthesia Clinical Experience II (2)- An continuation of ANES 5563. A comprehensive examination is administered at the end of the semester. PALS (Pediatric Advanced Life Support) certification is required for course completion. Prerequisite: ANES 5563, BLS and ACLS certification.

ANESTH 5566 Anesthesia Clinical Correlation III
Anes 5564 Anesthesia Clinical Correlation III (1)- The second year equivalent of ANES 5562. Prerequisite: ANES 5564

ANESTH 5567 Anesthesia Clinical Correlation IV
ANES 5570 Anesthesia Clinical Correlation IV (1) The second year equivalent of ANES 5564. Prerequisite ANES 5568

ANESTH 5570 Anesthesia Clinical Correlation IV
ANES 5570 Anesthesia Clinical Correlation IV (1) The second year equivalent of ANES 5564. Prerequisite ANES 5568

ANESTH 5575 Pharmacology for Anesthesiologist Assistants I
Basic concepts in pharmacology: principles of drug action, receptor theory, pharmacokinetics, pharmacodynamics and drug dose calculations. The course will emphasize the primary medications used to provide anesthesia and to support patients during the
perioperative period.

ANESTH 5575 Pharmacology for Anesthesiologist Assistants I
Basic concepts in pharmacology: principles of drug action, receptor theory, pharmacokinetics, pharmacodynamics and drug dose calculations. The course will emphasize the primary medications used to provide anesthesia and to support patients during the perioperative period.

ANESTH 5576 Pharmacology for Anesthesiologist Assistants II
Pharmacology for Anesthesiologist Assistants (2)- Principles of drug action, receptor theory, pharmacodynamics, and pharmacokinetics are taught. The course emphasizes those medication classes most commonly encountered within the practice of an anesthesiologist assistant. Special attention is given to anesthetic agents and adjunctive therapies.Prerequisite: Consent of the department.

ANESTH 5580 Fundamentals of Anesthetic Sciences I
This one hour course is a continuum of basic science conferences that cover a series of topics in basic medical science with special emphasis on the effect of anesthetics on normal physiology. They are presented by anesthesia clinical faculty, anesthesiology medical residents , and student anesthesiologist assistants.

ANESTH 5581 Fundamentals of Anesthetic Science II
This one hour course is a continuum of basic science conferences that cover a series of topics in basic medical science with special emphasis on the effect of anesthetics on normal physiology. They are presented by anesthesia clinical faculty, anesthesiology medical residents, and student anesthesiologist assistants. Students begin this series during their third semester of the program.

ANESTH 5582 Fundamentals of Anesthetic Science III
This one hour course is a continuum of basic science conferences that cover a series of topics in basic medical science with special emphasis on the effect of anesthetics on normal physiology. They are presented by anesthesia clinical faculty, anesthesiology medical residents, and student anesthesiologist assistants.

ANESTH 5585 Physiological Model-based Simulation I
ANES 5585 Physiological Model-based Simulation I- Introduction to physiological model-based simulation and procedure simulation with an emphasis on improving appropriate anesthesia-associated basic science knowledge, and manual skills in anesthesia machine checkout, anesthesia materials and equipment set up and performing anesthesia for uncomplicated surgical cases.Prerequisite: Consent of the department.

ANESTH 5586 Physiological Model-based Simulation II
ANES 5586 Physiological Model-based Simulation II (1) An extension of ANES 5585 with an emphasizes on improving or exercising knowledge of anesthesia-appropriate basic science and the use of more advanced equipment and techniques for uncomplicated cases with an introduction to crisis management.Prerequisite ANES 5585

Basic Medical Science (BMS)
BMS 366R Psychiatry I

BMS 393R Biochemistry I

BMS 5590 Special Topics
An opportunity to explore new topics or existing topics in modified or greater detail; topics which are not included in the usual course offerings. Prerequisites: To be determined by instructor and topic. Offered: On Demand.

BMS 9265 Human Biochemistry I - Medical
5 credit hours. Presents basic principles of human biochemistry. Addresses structure, function, biosynthesis, degradation and utilization of the major constituents of living systems. Employs an integrative approach to the basic science and clinical medicine aspects of normal and defective metabolism.

BMS 9265 Human Biochemistry I - Medical
5 credit hours. Presents basic principles of human biochemistry. Addresses structure, function, biosynthesis, degradation and utilization of the major constituents of living systems. Employs an integrative approach to the basic science and clinical medicine aspects of normal and defective metabolism.
BMS 9296 Human Structure Function I
7 credit hours, (lecture, laboratory and case-based discussions). Part 1 of a 4 part series (January-February). Integrated course in anatomy, histology, embryology, physiology and biochemistry. All basic science lectures have clinical faculty to emphasize basic science concepts relevant to the practice of medicine. This unit covers introductory principles and the musculoskeletal system. This unit covers introductory principles and the musculoskeletal system

BMS 9297 Human Structure Function II
6 credit hours, (lecture, laboratory and case-based discussions). Part 2 of a 4 part series (February-April). Integrated course in anatomy, histology, embryology, physiology and biochemistry. All basic science lectures have clinical faculty to emphasize basic science concepts relevant to the practice of medicine. This unit covers cardiopulmonary and gastrointestinal systems.

BMS 9298 Human Structure Function III
5 credit hours, (lecture, laboratory and case-based discussions) Part 3 of a 4 part series (April-May). Integrated course in anatomy, histology, embryology, physiology and biochemistry. All basic science lectures have clinical faculty to emphasize basic science concepts relevant to the practice of medicine. This unit covers urinary and reproductive systems.

BMS 9310 Neurosciences
Fall Year Three. 9 credit hours/4 hours lecture plus laboratory sessions. Lecture-based course covering major neurological disorders and disease states. Specific neurologic diseases will be correlated to the didactic sessions by clinicians. Laboratory component is oriented around brain dissection sessions. Laboratory experience will demonstrate gross lesions and integrate the lesions with the clinical symptoms. A variety of supplemental audiovisual material also supports the class.

BMS 9311 Medical Microbiology
6 credit hours/6 hours lecture per week. Covers basic scientific principles of virology, bacterial physiology and genetics. Presents information relevant to the pathogenesis of human infections caused by viruses, bacteria, fungi, protozoa and helminthes. Provides a concise presentation of basic immunological principles and their clinical relevance. Provides a concise review of antimicrobial therapeutic regimens including mechanism of action and clinical settings in which specific agents might be used. Utilizes case presentations to illustrate the manner in which reasonable differential diagnoses are developed and a rational approach toward empiric antimicrobial usage.

BMS 9311 Medical Microbiology
6 credit hours/6 hours lecture per week. Covers basic scientific principles of virology, bacterial physiology and genetics. Presents information relevant to the pathogenesis of human infections caused by viruses, bacteria, fungi, protozoa and helminthes. Provides a concise presentation of basic immunological principles and their clinical relevance. Provides a concise review of antimicrobial therapeutic regimens including mechanism of action and clinical settings in which specific agents might be used. Utilizes case presentations to illustrate the manner in which reasonable differential diagnoses are developed and a rational approach toward empiric antimicrobial usage.
BMS 9366G Human Biochemistry II - General

BMS 9393 Biochemistry I

BMS 9397 Special Topics: Human Neuroanatomy

BMS 9399 Human Structure Function IV
4 credit hours, (lecture, laboratory and case-based discussions) Part 4 of a 4 part series (June-July). Integrated course in anatomy, histology, embryology, physiology and biochemistry. All basic science lectures have clinical faculty to emphasize basic science concepts relevant to the practice of medicine. This unit covers the head and neck system. Includes a comprehensive examination for the Human Structure Function Series I-IV.

BMS 9399 Human Structure Function IV
4 credit hours, (lecture, laboratory and case-based discussions) Part 4 of a 4 part series (June-July). Integrated course in anatomy, histology, embryology, physiology and biochemistry. All basic science lectures have clinical faculty to emphasize basic science concepts relevant to the practice of medicine. This unit covers the head and neck system. Includes a comprehensive examination for the Human Structure Function Series I-IV.

BMS 9701 Clinical Anatomy Of Head And Neck
A detailed dissection of the maxillofacial and anterior neck regions, with the emphasis being placed on the clinical application of the surgical procedures used in these areas. This course may not be used to satisfy Cell Biology and Biophysics or Molecular Biology and Biochemistry disciplinespecific requirements for the Interdisciplinary Ph.D. program.

BMS 9701 Clinical Anatomy Of Head And Neck
A detailed dissection of the maxillofacial and anterior neck regions, with the emphasis being placed on the clinical application of the surgical procedures used in these areas. This course may not be used to satisfy Cell Biology and Biophysics or Molecular Biology and Biochemistry disciplinespecific requirements for the Interdisciplinary Ph.D. program.

Medical Bioinformatics (MEDB)
MEDB 5101 Biostatistics I
Introduction to statistical concepts and analytic methods as applied to health science. Course includes lectures and hands on computer laboratory. Prerequisites: Advanced math (i.e., Calculus, statistics)

MEDB 5102 Biostatistics II
The second course in the Biostatistics sequence for Master of Science in Bioinformatics; students gain knowledge and experience with advanced biostatistical methods. Prerequisites: BMED 5101 (Biostatistics I)

MEDB 5110 Clinical Research Methodology
Introduction to clinical research methodologies, conducts, and applications. Course provides overview of use of clinical epidemiology and bioinformatics in health care.

MEDB 5111 Clinical Epidemiology
Reviews the general concepts of epidemiology which will be applied to individual and population level clinical issues. This includes reviewing populations, samples, bias, chance, data analysis, measurements and distributions. Clinical situations that will be examined include questions about diagnosis, screening, prognosis, risk, therapy and harm. For each situation appropriate statistical and epidemiologic measures will be explored. Prerequisites: MEDB 5101 Biostatistics or instructor permission.

MEDB 5112 Clinical Trials
Clinical Trials explores the knowledge and skills required to conduct clinical trials, and implications of clinical trials on practice in medicine and allied health.

MEDB 5113 Overview of Health Services Research
Provides an overview of the U.S. health care and public health systems including issues about cost, access, and quality of health care. This course focuses on the role of research and information in the process of redesigning of health care delivery in the United State for the purpose of improving the value of health services. Prerequisites: Acceptance in Bioinformatics MS or Certificate in Clinical Research Program.

MEDB 5114 Human Genome Epidemiology
Introduces basic concepts of genetic epidemiology, the contemporary approaches, technologies and methods for modern genetic
epidemiological studies, and the various technical, statistical, and ethical issues now facing the field. Prerequisites: Basics of
statistics and human genetics preferred. Offered: Every spring.

MEDB 5120 Intro-Medical Informatics
Introduction to concepts of medical informatics and overview of the use of computers and information technologies in health
care.

MEDB 5130 Independent Study I
Focused readings and/or special research project in an area selected by the graduate student in consultation with the advisor.
Prerequisites: Advisor's Permission

MEDB 5150 Health Outcomes Seminar
this course is a series of seminars presented by bioinformatics for faculty, health outcomes researchers at St. Luke's and other
health outcomes professionals. The seminars cover a variety of topics unique to managing, implementing, analyzing data and
publishing health outcomes research.

MEDB 5160 Medical Decision Making
This course will introduce the concept of medical decision making under uncertainty through an examination of disease
probabilities and how they are altered by the characteristics of the diagnostic test being studies or used clinically. Decision trees
will be introduced as a mechanism for communicating complex medical decisions and introductory level decision analysis will be
presented. The measurement of patient values for alternative outcomes will be introduced as they pertain to direct payoff values
as well as modifiers to cost payoffs.

MEDB 5501 Biostatistics I
Introduction to statistical concepts and analytic methods as applied to health science. Course includes lectures and hands on
computer laboratory. Prerequisites: Advanced math (i.e., Calculus, statistics)

MEDB 5502 Biostatistics II
The second course in the Biostatistics sequence for Master of Science in Bioinformatics; students gain knowledge and experience
with advanced biostatistical methods. Prerequisites: BMED 5101 (Biostatistics I)

MEDB 5510 Clinical Research Methodology
Introduction to clinical research methodologies, conducts, and applications. Course provides overview of use of clinical
epidemiology and bioinformatics in health care.

MEDB 5511 Clinical Epidemiology
Reviews the general concepts of epidemiology which will be applied to individual and population level clinical issues. This
includes reviewing populations, samples, bias, chance, data analysis, measurements and distributions. Clinical situations that will
be examined include questions about diagnosis, screening, prognosis, risk, therapy and harm. For each situation appropriate
statistical and epidemiologic measures will be explored. Prerequisites: MEDB 5101 Biostatistics or instructor permission.

MEDB 5512 Clinical Trials
Clinical Trials explores the knowledge and skills required to conduct clinical trials, and implications of clinical trials on practice
in medicine and allied health.

MEDB 5513 Overview of Health Services Research
Provides an overview of the U.S. health care and public health systems including issues about cost, access, and quality of health
care. This course focuses on the role of research and information in the process of redesigning of health care delivery in the
United State for the purpose of improving the value of health services. Prerequisites: Acceptance in Bioinformatics MS or
Certificate in Clinical Research Program.

MEDB 5514 Human Genome Epidemiology
Designed for biological researchers and clinicians interested in studying common human diseases using state of the art
genomics/genetics epidemiological approaches. Comprehensive introduction to concepts and methodologies of
quantitative/statistical genetics, emerging technologies and analytical methods for genomic science, basic study design,
utilization of software packages for analyses of genomic data, successful examples of using human genome epidemiology
information to improve health, and ethical, legal and social issues in the design and conduct human genome epidemiology
research.

**MEDB 5520 Intro-Medical Informatics**
Introduction to concepts of medical informatics and overview of the use of computers and information technologies in health care.

**MEDB 5530 Independent Study I**
Focused readings and/or special research project in an area selected by the graduate student in consultation with the advisor. Prerequisites: Advisor's Permission

**MEDB 5531 Independent Study II**
Focused readings and/or special research projects in an area selected by the graduate student in consultation with the advisor.

**MEDB 5550 Health Outcomes Seminar**
This course is a series of seminars presented by bioinformatics for faculty, health outcomes researchers at St. Luke's and other health outcomes professionals. The seminars cover a variety of topics unique to managing, implementing, analyzing data and publishing health outcomes research.

**MEDB 5560 Medical Decision Making**
This course will introduce the concept of medical decision making under uncertainty through an examination of disease probabilities and how they are altered by the characteristics of the diagnostic test being studies or used clinically. Decision trees will be introduced as a mechanism for communicating complex medical decisions and introductory level decision analysis will be presented. The measurement of patient values for alternative outcomes will be introduced as they pertain to direct payoff values as well as modifiers to cost payoffs.

**MEDB 5589 Special Topics**
An opportunity to explore in depth topics not included in usual course offerings. One or more topics will be announced in advance of registration.

**MEDB 5590 Special Topics**
An opportunity to explore in depth topics not included in usual course offerings. One or more topics will be announced in advance of registration.

**MEDB 5591 Internship I**
Opportunity to apply knowledge and skills in clinical, computational, or genomics research and gain insight into potential career options. Students develop appreciation for teamwork and commitment in professional environments. Prerequisites: MEDB 5501, MEDB 5502, MEDB 5510, MEDB 5513

**MEDB 5592 Internship II**
Opportunity to apply knowledge and skills in clinical, computational, or genomics research and gain insight into potential career options. Students develop appreciation for teamwork and commitment in professional environments. Internship II is applicable to students who have previously completed 3 hours of internship. Prerequisites: MEDB 5501, MEDB 5502, MEDB 5510, MEDB 5513, MEDB 5591

**MEDB 5595 Capstone Experience**
This course is designed for the non-thesis student to demonstrate that they have mastered key learning objectives expected of the graduating master's student in the Clinical Research emphasis area. After completion of the core courses in the Masters of Bioinformatics curriculum, students will apply their learning to developing, implementing and presenting results from a project that demonstrates integration of the knowledge, abilities and values emphasized in the degree program. Prerequisites: Permission of graduate advisor.

**MEDB 5599 Research and Thesis**
Research for thesis. Prerequisite: Advisor's permission.

**MEDB 5899 Required Graduate Enrollment**

**Medicine (MEDICINE)**

**MEDICINE 115 Medical Terminology**
MEDICINE 119R Learn Basic Med Sciences
1 credit hour/1 hour per week. Provides students with an understanding of their own learning processes and those study strategies that promote maximum learning efficiency. Active participation in course increases achievement in both science and non-science courses, smoothes transition to college-level work, and further develops reasoning and thinking skills that apply to medical school.

MEDICINE 1701 Nuclear Medicine-Nuclear Radiology (With Abcad)

MEDICINE 232S Physical Diagnosis

MEDICINE 300PS Special Topics Umkc

MEDICINE 302RQ Internal Medicine/Docent II

MEDICINE 304CM Body Images In Medicine

MEDICINE 321 Pathology-Anatomy I

MEDICINE 362 Independent Study II

MEDICINE 385A Regular Anatomy Head & Neck I

MEDICINE 385C Regular Anatomy Extremeties I

MEDICINE 385D Regular Anatomy Thorax-Abdomen I

MEDICINE 385E Microbiology And Histology I

MEDICINE 385F Neuroanatomy

MEDICINE 385J Selected Readings & Independent Study Anatomy

MEDICINE 386D Reading Physiology I

MEDICINE 392 Clinical Microbiology/Immunology & Review I

MEDICINE 393 Biochemistry I

MEDICINE 403 Correlative Medical Series II

MEDICINE 480N Pharmacology Rotation I
MEDICINE 481 Correl Med

MEDICINE 485F Neuroanatomy

MEDICINE 486 Reading Physiology II

MEDICINE 492 Clinical Microbiology/Immunology Review II

MEDICINE 493 Biochemistry II

MEDICINE 495R Clinical Nutrition

MEDICINE 501PS Special Topics Umkc

MEDICINE 502PS Special Topics Umkc

MEDICINE 5590 Special Topics
An opportunity to explore new topics or existing topics in modified or greater detail; topics which are not included in the usual course offerings. Prerequisites: To be determined by instructor and topic. Offered: On demand.

MEDICINE 575 Clinical Pharmacy I

MEDICINE 591R Neuro-Ophthalmology

MEDICINE 609RR Physical Diagnosis: Instructor

MEDICINE 636R Emergency Medicine/Aero Medicine

MEDICINE 642R Synthesis IV General Anat Special Block

MEDICINE 643R Interdisiplinary Look At Patient Care: Cue To Healing

MEDICINE 644R Research In Neonatal Intensive Care

MEDICINE 645R Synthesis V Head & Neck/Hi sto Special Block

MEDICINE 651R Neurology/Oncology

MEDICINE 652R Orthopaedic Surgery Research

MEDICINE 653R Otolaryngology
MEDICINE 654R Gynecology Surgery

MEDICINE 655R Directive Research In Medical Subspeciality II

MEDICINE 656R Pediatrics Subinternship I

MEDICINE 657R Pediatrics Subinternship II

MEDICINE 658 Child Abuse & Neglect

MEDICINE 659 Ims/Stroke

MEDICINE 660R Forensic Psychiatry

MEDICINE 661 Reproductive Endocrinology

MEDICINE 662R Independent Study In Anatomy Review

MEDICINE 663 Independent Study In Physiology Review

MEDICINE 664R Foundations To Normal Process Of Aging: Psych/Social/Cultural I

MEDICINE 665R Foundations To Normal Processes Of Aging: Psych/Social/Culture II

MEDICINE 666 Research In Bronchiolitis

MEDICINE 667 Anesthesiology III

MEDICINE 668 Epileptology

MEDICINE 669 Maternal Fetal Medicine

MEDICINE 670 Electrophysiology Cardiology

MEDICINE 899 Continuous Enrollment

MEDICINE 9110 Fundamentals Of Medical Practice I
5 credit hours each, 3 hours per week onsite, 2 hours lecture/small group/ other activities. Introduces students to professional values, attitudes and skills required to practice medicine competently. Develops student competence in basic communication, relationship-building and patient centered interviewing skills. Provides self-awareness and personal growth strategies that facilitate the acquisition of professional behavior affecting honesty and integrity, compassion and altruism, as well as the management of stress. Explores non-biological factors influencing health and the appreciation of different value systems and lifestyles. Promotes ethical considerations relating to professional behavior and student conduct as a forerunner to professional behavior. Emphasizes the team approach in solving medical problems through direct small group activities as part of weekly
onsite docent experiences. Integrates patient interviews and examinations with sciences fundamental to clinical medicine, including anatomy, chemistry, psychology and sociology. Introduces the student to the normal processes of aging and incorporates onsite interactions with senior mentors. Involves students in a core curriculum that emphasizes issues related to adolescence.

**MEDICINE 9110** Fundamentals Of Medical Practice I
5 credit hours each, 3 hours per week onsite, 2 hours lecture/small group/other activities. Introduces students to professional values, attitudes and skills required to practice medicine competently. Develops student competence in basic communication, relationship-building and patient centered interviewing skills. Provides self-awareness and personal growth strategies that facilitate the acquisition of professional behavior affecting honesty and integrity, compassion and altruism, as well as the management of stress. Explores non-biological factors influencing health and the appreciation of different value systems and lifestyles. Promotes ethical considerations relating to professional behavior and student conduct as a forerunner to professional behavior. Emphasizes the team approach in solving medical problems through direct small group activities as part of weekly onsite docent experiences. Integrates patient interviews and examinations with sciences fundamental to clinical medicine, including anatomy, chemistry, psychology and sociology. Introduces the student to the normal processes of aging and incorporates onsite interactions with senior mentors. Involves students in a core curriculum that emphasizes issues related to adolescence.

**MEDICINE 9110A** Fundamentals Of Medical Practice I
Offered: Every semester.

**MEDICINE 9115** Medical Terminology
1 credit hour/twice weekly each semester. Methodical introduction to the language of medicine and its usage in modern clinical documentation. Introduces word elements in a logical, graduated sequence correlated with laboratory practice. Encourages skills in etymological analysis based on the word elements presented to facilitate interpretation of composite medical terms.

**MEDICINE 9115** Medical Terminology
1 credit hour/twice weekly each semester. Methodical introduction to the language of medicine and its usage in modern clinical documentation. Introduces word elements in a logical, graduated sequence correlated with laboratory practice. Encourages skills in etymological analysis based on the word elements presented to facilitate interpretation of composite medical terms.

**MEDICINE 9119** Learning Basic Medical Sciences
1 credit hour/1 hour per week. Provides students with an understanding of their own learning processes and those study strategies that promote maximum learning efficiency. Active participation in course increases achievement in both science and non-science courses, smooths transition to college-level work, and further develops reasoning and thinking skills that apply to medical school.

**MEDICINE 9120** Fundamentals Of Medical Practice II
5 credit hours each, 3 hours per week onsite, 2 hours lecture/small group/other activities. Introduces students to professional values, attitudes and skills required to practice medicine competently. Develops student competence in basic communication, relationship-building and patient centered interviewing skills. Provides self-awareness and personal growth strategies that facilitate the acquisition of professional behavior affecting honesty and integrity, compassion and altruism, as well as the management of stress. Explores non-biological factors influencing health and the appreciation of different value systems and lifestyles. Promotes ethical considerations relating to professional behavior and student conduct as a forerunner to professional behavior. Emphasizes the team approach in solving medical problems through direct small group activities as part of weekly onsite docent experiences. Integrates patient interviews and examinations with sciences fundamental to clinical medicine, including anatomy, chemistry, psychology and sociology. Introduces the student to the normal processes of aging and incorporates onsite interactions with senior mentors. Involves students in a core curriculum that emphasizes issues related to aging.

**MEDICINE 9120** Fundamentals Of Medical Practice II
5 credit hours each, 3 hours per week onsite, 2 hours lecture/small group/other activities. Introduces students to professional values, attitudes and skills required to practice medicine competently. Develops student competence in basic communication, relationship-building and patient centered interviewing skills. Provides self-awareness and personal growth strategies that facilitate the acquisition of professional behavior affecting honesty and integrity, compassion and altruism, as well as the management of stress. Explores non-biological factors influencing health and the appreciation of different value systems and lifestyles. Promotes ethical considerations relating to professional behavior and student conduct as a forerunner to professional behavior. Emphasizes the team approach in solving medical problems through direct small group activities as part of weekly onsite docent experiences. Integrates patient interviews and examinations with sciences fundamental to clinical medicine, including anatomy, chemistry, psychology and sociology. Introduces the student to the normal processes of aging and incorporates onsite interactions with senior mentors. Involves students in a core curriculum that emphasizes issues related to
MEDICINE 9120A Fundamntl Med Prac II
Offered: Every semester.

MEDICINE 91251 Emergency Medicine-Emergency Medicine

MEDICINE 91253 Emergency Medicine-Sports Medicine

MEDICINE 9127R Learning Basic Medical Science II

MEDICINE 9128R Learning Basic Medical Science III

MEDICINE 91300 Emergency And Internal Medicine-General

MEDICINE 91353 Palliative Care Hospice

MEDICINE 91400A Medicine-General

MEDICINE 91400B Internal Medicine-General

MEDICINE 91750A Ob/Gyn General II

MEDICINE 91800A Ophthalmology-General

MEDICINE 91800B Ophthalmology-General

MEDICINE 91850A Orthopedics Surgery-General

MEDICINE 91850B Orthopedics Surgery-General

MEDICINE 91859 Orthopedic Surgery-Rehabilitation Orthopedics

MEDICINE 91903 Otolaryngology-Neurology/Otolaryngology

MEDICINE 91957 Pathology Anatomic & Clinical Immunopathology

MEDICINE 91962 Pathology Anatomic & Clinical-Selective Pathology

MEDICINE 92010A Pediatrics-Infectious Disease

MEDICINE 9210 Fundamentals Of Medical Practice III
5 credit hours, 3 hours per week onsite, 2 hours lecture. Reinforces important concepts in diversity and professionalism. Continues the team approach in solving medical problems through direct small group activities as part of weekly onsite docent
experience.

**MEDICINE 9210** Fundamentals Of Medical Practice III  
5 credit hours, 3 hours per week onsite, 2 hours lecture. Reinforces important concepts in diversity and professionalism. Continues the team approach in solving medical problems through direct small group activities as part of weekly onsite docent experience.

**MEDICINE 9210A** Plastic Surgery-General

**MEDICINE 9210B** Plastic Surgery-General

**MEDICINE 9210A** Fundamentals Of Medical Practice III  
Offered: Every semester.

**MEDICINE 9220** Fundamentals Of Medical Practice IV  
5 credit hours, 3 hours per week onsite, 2 hours lecture. Reinforces important concepts in diversity and professionalism. Continues the team approach in solving medical problems through direct small group activities as part of weekly onsite docent experiences. Integrates patient interviews and examinations with sciences fundamental to clinical medicine, including biochemistry, anatomy, physiology, biochemistry and social sciences. Exposes students to a series of interviews with seasoned professionals who address issues of professionalism and career development.

**MEDICINE 9220** Fundamentals Of Medical Practice IV

**MEDICINE 9220A** Fundamentals of Medical Practice IV ALT

**MEDICINE 9221** Hospital Team Experience  
1 credit hour/2-week assignment in hospital. Teaches students to make good observations, interact appropriately with patients, family, and hospital staff, assist with non-physician duties, and perform technical skills appropriate to assigned departments. Facilitates understanding of allied health care personnel roles in patient care, communication among health care professionals and its influence on the delivery of health care and patient outcomes, and the hospital process and structure of authority within the hospital.

**MEDICINE 9221** Hospital Team Experience  
1 credit hour/2-week assignment in hospital. Teaches students to make good observations, interact appropriately with patients, family, and hospital staff, assist with non-physician duties, and perform technical skills appropriate to assigned departments. Facilitates understanding of allied health care personnel roles in patient care, communication among health care professionals and its influence on the delivery of health care and patient outcomes, and the hospital process and structure of authority within the hospital.

**MEDICINE 924R** Ambulatory Care III

**MEDICINE 9250A** Radiology Oncology-General

**MEDICINE 9250B** Radiology Oncology-General

**MEDICINE 926R** Ambulatory Care IV

**MEDICINE 9235** Integrated Problem Solving II

**MEDICINE 92525** Transitional-Year General
MEDICINE 92550 Preliminary Medicine-General

MEDICINE 92600 Preliminary Surgery General

MEDICINE 92750 Family Practice & Psychiatry-General

MEDICINE 92755 Internal Medicine & Family Practice-General

MEDICINE 92760 Internal Medicine & Neurology-General

MEDICINE 92765 Internal Medicine & Preventive Medicine-General

MEDICINE 92770 Neurology & Physical Medicine & Rehab-General

MEDICINE 92780 Intro Clinical Experience

MEDICINE 92800 Pediatrics & Emergency Medicine-General

MEDICINE 92850 Pediatrics & Psychiatry Child/Adolescent-General

MEDICINE 92900 Pediatrics & Physical Medicine & Rehab-General

MEDICINE 92950 Physical Medicine & Rehab/Neurology-General

MEDICINE 92955 Psychiatry & Neurology-General

MEDICINE 9310 History Of Medicine
In this course students will learn the ways disease has altered history and that conceptions of disease undergo constant change. Topics covered include diseases and their relationships to other medical sciences, as well as the historical and scientific developments which led to our present understanding of diseases and medicine. One hour lecture per week. Summer of Year 2.

MEDICINE 9312 General/Clinical Pathology
Year 3 spring semester. 8 credit hours (January-February). Course consists of lectures, laboratories with case studies, special projects including integrated questions, clinical patient presentations, and examinations. Content areas emphasized include cytogenetics, infectious diseases and neoplasia.

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projects including integrated questions, clinical patient presentations, and examinations. Content areas emphasized include cytogenetics, infectious diseases and neoplasia.

**MEDICINE 9313 Anatomic/Systemic Pathology**
Year 3 Spring semester. 12 credit hours (March-May). Course consists of lectures, laboratories with case studies, special projects including integrated questions, clinical patient presentations, autopsy review with paper, and examinations. Content areas emphasized include cardiovascular, lymphatic, hematologic, gastrointestinal, renal, hepatic, and genitourinary systems.

**MEDICINE 9313 Anatomic/Systemic Pathology**
Year 3 Spring semester. 12 credit hours (March-May). Course consists of lectures, laboratories with case studies, special projects including integrated questions, clinical patient presentations, autopsy review with paper, and examinations. Content areas emphasized include cardiovascular, lymphatic, hematologic, gastrointestinal, renal, hepatic, and genitourinary systems.

**MEDICINE 93200A Independent Study Month**

**MEDICINE 93200B Independent Study Month**

**MEDICINE 93300 Basic Science General**

**MEDICINE 93400 Academic/Medicine**

**MEDICINE 9375CC Primary Care - Navajo Nation I**

**MEDICINE 9375K Primary Care Office Practice II-Clinton Missouri**

**MEDICINE 9380 Clinical Skills**
5 credit hours/fallsemester. Challenges students to achieve competencies in patient history taking, physical examination, selected diagnostic studies and procedures, and other abilities. Statements of competencies in above areas specify the attitudes, knowledge and skills students will be expected to demonstrate

**MEDICINE 9380 Clinical Skills**
5 credit hours/fallsemester. Challenges students to achieve competencies in patient history taking, physical examination, selected diagnostic studies and procedures, and other abilities. Statements of competencies in above areas specify the attitudes, knowledge and skills students will be expected to demonstrate

**MEDICINE 9380 Clinical Skills**
5 credit hours/fallsemester. Challenges students to achieve competencies in patient history taking, physical examination, selected diagnostic studies and procedures, and other abilities. Statements of competencies in above areas specify the attitudes, knowledge and skills students will be expected to demonstrate

**MEDICINE 9383 Continuing Care Clinic**
5 credit hours /half-day per week except during vacation or out-of-town electives (beginning in Fall Semester, Year 3).Provides ambulatory and continuous care experience in general medicine clinics. The docent teams are assigned to a clinic in which students see and follow a panel of patients on a continuous basis for up to four years, where necessary, under the supervision of docents. Provides continuity of care from inpatient hospitalization to outpatient care, allowing longitudinal experience for the student and personalized care for the patients. Allows students to observe the natural progression of disease and experience the rewards and challenges of an ongoing doctor-patient relationship.

**MEDICINE 9383 Continuing Care Clinic**
5 credit hours /half-day per week except during vacation or out-of-town electives (beginning in Fall Semester, Year 3).Provides ambulatory and continuous care experience in general medicine clinics. The docent teams are assigned to a clinic in which students see and follow a panel of patients on a continuous basis for up to four years, where necessary, under the supervision of docents. Provides continuity of care from inpatient hospitalization to outpatient care, allowing longitudinal experience for the student and personalized care for the patients. Allows students to observe the natural progression of disease and experience the rewards and challenges of an ongoing doctor-patient relationship.
MEDICINE 9385 Introduction To Pharmacology
2 credit hours/independent study during Fall Semester of Year 3. Consists of self-paced, independent learning, computer-based instruction. Introductory principles of pharmacology are covered that provide students with basic knowledge and skills necessary for upcoming didactic and clinical curriculum. Students become familiar with drug information resources, pharmaceutical calculations, and prescription writing skills, and learn basic mechanisms of drug action, preventive therapeutics and pharmacokinetic principles.

MEDICINE 9385 Introduction To Pharmacology
2 credit hours/independent study during Fall Semester of Year 3. Consists of self-paced, independent learning, computer-based instruction. Introductory principles of pharmacology are covered that provide students with basic knowledge and skills necessary for upcoming didactic and clinical curriculum. Students become familiar with drug information resources, pharmaceutical calculations, and prescription writing skills, and learn basic mechanisms of drug action, preventive therapeutics and pharmacokinetic principles.

MEDICINE 9386 An Interdisciplinary Approach to Patient Care: CUES to Healing
3 credit hours. CUES (Communication, Understanding, Education, and Self-care) is designed to enhance physician/patient communication skills. CUES increases the cultural competence of students, for example in providing care to older people and people from ethnically diverse populations.

MEDICINE 9390 Clinical Correlations
5 credit hours. Case-based discussions provided by clinicians that serve to reinforce basic science concepts provided during BMS 9296, 9297, 9298 and 9390.

MEDICINE 9390 Clinical Correlations
5 credit hours. Case-based discussions provided by clinicians that serve to reinforce basic science concepts provided during BMS 9296, 9297, 9298 and 9390.

MEDICINE 9400 Research General

MEDICINE 9401 Internal Medicine/Docent Instruction Yr 4
Students spend this two-month rotation on the medical wards at Truman Medical Center, each working as a integral member of a docent team that includes the docent, residents and attending health care staff. Year 3 and 5, and Year 4 and 6 students are paired together in a junior-senior partnership. Rounds, conference and consultations. Year 4.

MEDICINE 9402 Internal Medicine/Docent Instruction Yr 4

MEDICINE 9408 Pharmacology
10 credit hours/2 months. Introduces the study of the interaction of drugs with biological systems. Provides the medical student with relevant basic pharmacology of the model drugs under clinical investigation and in use today. Includes extensive small group activities.

MEDICINE 9408 Pharmacology
10 credit hours/2 months. Introduces the study of the interaction of drugs with biological systems. Provides the medical student with relevant basic pharmacology of the model drugs under clinical investigation and in use today. Includes extensive small group activities.

MEDICINE 9408I Neurology - Boston, Mass II

MEDICINE 94100A Clinical Research

MEDICINE 94100AA Clinical Research II

MEDICINE 94100BB Clinical Research III
MEDICINE 9411AR Fundamentals Of Medical Practice III

MEDICINE 94500A Academic Research

MEDICINE 94500B Academic Research

MEDICINE 9455R Pediatric Orthopaedics

MEDICINE 9460A Research-National Institute Of Health Bethesda, Maryland II

MEDICINE 9462B Investigate Clinical Pharmacokinetics III

MEDICINE 9471 Family Medicine
5 credit hours/1 month. Exposes students to the unique specialty that focuses on the family. Students experience the act of medicine as well as science, working with patients in the context of their family and community. Includes care of the child, the adolescent, pregnant women, young and middle aged adults, and the elderly. Addresses ambulatory medicine, prevention and health maintenance.

MEDICINE 9472 Behavioral Science In Medicine
5 credit hours/1 month. Teaches the basic taxonomy, assessment methods and treatment interventions of chemical dependence and major psychiatric disorders. Serves as preparation for the psychiatry rotation. Examines relevant ethical issues commonly faced in current medical practice. Utilizes case studies and a problem-centered approach in addition to clinical experience including home health care visits, supervised interviewing, and time on an inpatient chemical dependency unit. Challenges the student to achieve an integrated theoretical understanding of various approaches in behavioral sciences as a background for meeting patients needs. Teaches communication skills including education of older patients.

MEDICINE 9482 Patient, Physician, Society I
2 credit hours/Fall semester. Introduces students to a 7-week unit emphasizing medical decision making. Introduces students to a 6-week unit which focuses on public health. Activities include lecture, problem sets, small group projects.

MEDICINE 9483 Continuing Care Clinic
5 credit hours/half-day per week except during vacation or out-of-town electives. Provides ambulatory and continuous care experience in general medicine clinics. The docent teams are assigned to a clinic in which students see and follow a panel of patients on a continuous basis for up to four years, where necessary, under the supervision of docents. Provides continuity of care from inpatient hospitalization to outpatient care, allowing longitudinal experience for the student and personalized care for the patients. Allows students to observe the natural progression of disease and experience the rewards and challenges of an ongoing doctor-patient relationship.
MEDICINE 9483 Continuing Care Clinic
5 credit hours/half-day per week except during vacation or out-of-town electives. Provides ambulatory and continuous care experience in general medicine clinics. The docent teams are assigned to a clinic in which students see and follow a panel of patients on a continuous basis for up to four years, where necessary, under the supervision of docents. Provides continuity of care from inpatient hospitalization to outpatient care, allowing longitudinal experience for the student and personalized care for the patients. Allows students to observe the natural progression of disease and experience the rewards and challenges of an ongoing doctor-patient relationship.

MEDICINE 9483RC Year Four Repeat Clinic
Prerequisite: Year 3 clinic

MEDICINE 9484 Patient, Physician, Society II
2 credit hours/spring semester. Introduces students to a unit emphasizing medical ethics and palliative care. Activities include lecture, small group sessions, and assigned readings.

MEDICINE 9484 Patient, Physician, Society II
2 credit hours/spring semester. Introduces students to a unit emphasizing medical ethics and palliative care. Activities include lecture, small group sessions, and assigned readings.

MEDICINE 9485 Ambulatory Care Pharmacology
2 credit hours/independent study during spring semester of Year 4. Consists of a self-paced, independent learning, computer-based instruction. Focuses on integration of patient-related data with basic science data. Students obtain skills in assessing patient risk or disease staging and selecting appropriate pharmacotherapy based on such information. The selected topics focus on outpatient pharmacotherapy of common disease states for which there are established treatment guidelines, such as hypertension, heart failure, diabetes mellitus, asthma, pain, and hyperlipidemia.

MEDICINE 9485 Ambulatory Care Pharmacology
2 credit hours/independent study during spring semester of Year 4. Consists of a self-paced, independent learning, computer-based instruction. Focuses on integration of patient-related data with basic science data. Students obtain skills in assessing patient risk or disease staging and selecting appropriate pharmacotherapy based on such information. The selected topics focus on outpatient pharmacotherapy of common disease states for which there are established treatment guidelines, such as hypertension, heart failure, diabetes mellitus, asthma, pain, and hyperlipidemia.

MEDICINE 9487 Extended Clinic II

MEDICINE 9489R Medical Anthropology

MEDICINE 9494R Medical Humanities

MEDICINE 9501 Internal Medicine/Docent Instruction Yr 5
Students spend this two-month rotation on the medical wards at Truman Medical Center, each working as an integral member of a docent team that includes the docent, residents and attending health care staff. Year 3 and 5, Year 4 and 6 students are paired together in the junior-senior partnership. Rounds, conference and consultations. Year 5.

MEDICINE 9502 Internal Medicine/Docent Instruction Yr 5

MEDICINE 9503 Pediatrics Rotation
This two-month rotation is designed to help students master skills necessary in assessing normal and abnormal development and behavioral variation in the newborn, infant and child in the outpatient clinical setting. History-taking and physical examination of infants, children and adolescents are emphasized. Year 4.

MEDICINE 9503BR Peds Rotation

MEDICINE 9505 General Surgery Rotation
10 credit hours/2 months. Introduces students to the field of general surgery. Emphasizes the indications, contraindications, types of operative management, and the mortality and morbidity of various operations. Involves the student in several different kinds of learning experiences, such as preoperative and postoperative care, work in the operating room, outpatient clinic visits, night call,
student conferences and resident conferences. Covers skills in surgical scrub, putting on gown and gloves, knot tying, vena puncture, proctoscopy, and suturing of the skin. Students assist in performing skills such as insertion of CVP catheters, insertion of a chest tube, thoracentesis, paracentesis and Swan-Ganz catheters.

**MEDICINE 9505 General Surgery Rotation**
10 credit hours/2 months. Introduces students to the field of general surgery. Emphasizes the indications, contraindications, types of operative management, and the mortality and morbidity of various operations. Involves the student in several different kinds of learning experiences, such as preoperative and postoperative care, work in the operating room, outpatient clinic visits, night call, student conferences and resident conferences. Covers skills in surgical scrub, putting on gown and gloves, knot tying, vena puncture, proctoscopy, and suturing of the skin. Students assist in performing skills such as insertion of CVP catheters, insertion of a chest tube, thoracentesis, paracentesis and Swan-Ganz catheters.

**MEDICINE 9506 Obstetrics-Gynecology Rotation**
10 credit hours/2 months. Provides the student with an opportunity to gain basic competence in obstetrics and gynecology, including proficiency in the history and physical examination related to the obstetric and gynecologic patient. Emphasizes outpatient gynecology, family planning and techniques for early detection of gynecologic cancer. Provides basic information in reproductive physiology and endocrinology, infertility, gynecologic oncology, and the psychologic aspect of diseases of women. Covers concepts of prenatal care and fundamentals of normal labor and delivery, and pregnancy complications.

**MEDICINE 9506BR Obstet-Gynecol Rotation**

**MEDICINE 9510 Bariatrics Research-Obesity**

**MEDICINE 9513B Docent Unit Physiology IX**

**MEDICINE 9514 Medicine, War & the Arts**
This course considers the continually evolving relationship between medicine, war, and the arts, from the slaughter of the American Civil War (1861-65) to today’s conflicts in Iraq. Our focus is on the extraordinary difficult medical and ethical decisions faced by physicians in times of war, and the ways in which those experiences are reflected in the arts. Topics include the effects of disease on armies, biological warfare, the development of ambulance and hospital services in the Civil War, battlefield medicine, the diagnosis and treatment of shellshock victims in WWI, chemical warfare, the pioneering of plastic surgery, triage techniques in WWII, nuclear warfare, and the personal experiences of physicians in the Vietnam and Iraq wars.

**MEDICINE 9515 Medicine and Music**
This course will explore ways in which music and medicine interact, including the following topics: therapeutic applications of music (music therapy), current research on how the brain processes music, the treatment of medical themes (including illness and disease, patients, physicians, and human experimentation) in musical works, and how certain composers’ medical conditions affected their creative output.

**MEDICINE 9516 Medicine and Film**
Movies are narratives that record, instruct, motivate, entertain and transform. This course investigates the ways in which physicians, patients, and medical students have been portrayed in Hollywood films over the course of the twentieth and the early twenty-first centuries. Compassion, idealism, and heroism were common traits in early doctor movies but there was also a recurrent theme of the greedy callous doctor who valued research over patient welfare, and profits over ethics. We discuss how films reflected, changed, and molded perceptions of physicians and patients in the past, and examine what contemporary portrayals of the medical profession can tell us about the expectations and fears of patients today.

**MEDICINE 9516R Clinical Medicine V**

**MEDICINE 9517 Medicine and Literature**
The aim of this course is to engage students in the process of self-reflection about their roles as health care professionals through
the lens of literature. Reading about the ways in which people interact with professionals, patients, and disease can enrich our understanding of cultural, economic, and social issues. Medical literature is a diverse field and it increases our awareness of the different reactions to medicine and illness. This course is intended to improve our empathy for patients and peers.

MEDICINE 9518 Medicine, Law and Bioethics
5 credit hours toward the M.D. degree. Lecture, discussion and writing about legal and ethical issues related to the practice of medicine. For students in Year 6, it not only fulfills the requirement for a Medical Humanities course in year 5 or 6 but also offers preparation for the assumption of the responsibilities of the M.D. degree.

MEDICINE 9567R Critical Care I

MEDICINE 9570 Family Medicine Preceptorship
5 credit hours/1 month. Provides work experience with a rural Missouri physician. Helps students understand the responsibilities and importance of family physicians in the provision of health care. Provides continuing emphasis on the need for and importance of family practice.

MEDICINE 9571 Psychiatry Rotation
5 credit hours/1 month. Gives each medical student a clinical assignment that involves responsibility for patient care under supervision on the adult inpatient service and experience in the clinic. Includes seminars in psychopathology, psychiatric syndromes, mechanisms of defense, psychopharmacology, drug and alcohol abuse and specific psychosocial assessment.

MEDICINE 9578 Medicine and Art
5 credit hours toward the M.D. degree. Lecture, discussion.

MEDICINE 9583 Continuing Care Clinic
5 credit hours/half-day per week except during vacation or out-of-town electives. Provides ambulatory and continuous care experience in general medicine clinics. The docent teams are assigned to a clinic in which students see and follow a panel of patients on a continuous basis for up to four years, where necessary, under the supervision of docents. Provides continuity of care from inpatient hospitalization to outpatient care, allowing longitudinal experience for the student and personalized care for the patients. Allows students to observe the natural progression of disease and experience the rewards and challenges of an ongoing doctor-patient relationship.

MEDICINE 9585 Prescribing For Special Populations
2 credit hours/independent study during Year 5. Consists of a self-paced, independent learning, computer-based instruction. Teaches principles of prescribing for special populations. Students learn to recognize special patients and to assess risks and benefits and individualize drug therapy in special patient situations. The course addresses concepts of pharmacology in five commonly-encountered special populations: pediatrics, elderly, patients with liver or kidney disease, and pregnant or breast-feeding patients.
MEDICINE 9587 Extended Clinic III

MEDICINE 9594 Medicine and Body Image
5 credit hours toward the M.D. degree. Lecture, discussion, writing about ethical issues related to death.

MEDICINE 9601 Internal Medicine/Docent Instruction Yr 6
Students spend this two-month rotation on the medical wards at Truman Medical Center, each working as an integral member of a docent team that includes the docent, residents and attending health care staff. Year 3 and 5, and Year 4 and 6 students are paired together in a junior-senior partnership. Rounds, conference and consultations. Year 6.

MEDICINE 9602 Internal Medicine/Docent Instruction Yr 6

MEDICINE 9678 Emergency Medicine
5 credit hours/1 month. Based at Truman Medical Center Hospital Hill or Saint Luke's Hospital of Kansas City, the major affiliated adult hospitals for the School of Medicine. Emphasizes principles, concepts and skills necessary for the initial evaluation and care of medical and surgical emergencies. Teaches management of simple lacerations, burns, contusions, sprains, and infections, and recognition of life threatening emergencies and initiation of emergency care in response.

MEDICINE 9683 Continuing Care Clinic
5 credit hours/half-day per week except during vacation or out-of-town electives. Provides ambulatory and continuous care experience in general medicine clinics. The docent teams are assigned to a clinic in which students see and follow a panel of patients on a continuous basis for up to four years, where necessary, under the supervision of docents. Provides continuity of care from inpatient hospitalization to outpatient care, allowing longitudinal experience for the student and personalized care for the patients. Allows students to observe the natural progression of disease and experience the rewards and challenges of an ongoing doctor-patient relationship.

MEDICINE 9685 Rational And Safe Drug Prescribing
2 credit hours/independent study during fall Semester of Year 6. Consists of self-paced, independent learning, computer-based instruction. Teaches principles of clinical pharmacology that will assist the student in responsibly prescribing medications. Students develop skills in making informed clinical decisions through studying topics such as literature evaluation, medication errors, adverse drug reactions, drug allergies, drug interactions, overdose management, alternative therapies, and therapeutic drug monitoring.

MEDICINE 9687 Extended Clinic IV

MEDICINE 9701 Clinical Research
MEDICINE 9703 Academic Research

MEDICINE 9714 Academic General Year I

MEDICINE 9714A2 Academic General Year I

MEDICINE 9715 Independent Readings Month

MEDICINE 9716 Independent Study Month

MEDICINE 9719 Health Policy

MEDICINE 9731 Academic Clinical Epidemiology

MEDICINE 9842 Internal Medicine Sub-Internship

MEDICINE 9842-C21 Internal Medicine Sub-Internship

MEDICINE 9850-C31 Neurology Sub-Internship

MEDICINE 9898-C61 Internal Medicine/Pediatrics-Sub-Internship
Prerequisites: Successful completion of the core Internal Medicine and Pediatrics clerkships.

MEDICINE 9899-C61 Internal Medicine Pediatrics Clinic

MEDICINE 9921 Pediatrics Sub-Internship

MEDICINE 9921-C61 Pediatrics Sub-Internship

MEDICINE 9922 Neonatal Intensive Care Sub-Internship

MEDICINE 9922-C61 Neonatal Intensive Care Sub-Internship

MEDICINE 9923 Pediatrics-Rehabilitation

MEDICINE 9923-C61 Pediatrics-Rehabilitation

MEDICINE 9924 Pediatrics-Dermatology

MEDICINE 9924-C61 Pediatrics-Dermatology
MEDICINE 9925 Pediatrics-Ophthalmology

MEDICINE 9925-C61 Pediatrics-Ophthalmology

MEDICINE 9926 Pediatrics-Genetics

MEDICINE 9926-C61 Pediatrics-Genetics

MEDICINE 9927 Pediatrics-Neurology

MEDICINE 9927-C61 Pediatrics-Neurology

MEDICINE 9928 Pediatrics-Child and Adolescent Psychiatry

MEDICINE 9928-C61 Pediatrics-Child and Adolescent Psychiatry

MEDICINE 9929 Pediatrics-Plastic Surgery

MEDICINE 9929-C61 Pediatrics-Plastic Surgery

MEDICINE 9930 Pediatrics-Orthopedic Surgery

MEDICINE 9930-C61 Pediatrics-Orthopedic Surgery

MEDICINE 9940-C61 Pediatrics-Allergy and Immunology

MEDICINE 9964 Plastic Surgery-General

MEDICINE 9972 Surgery-General Sub-Internship

MEDICINE 9972-C81 Surgery-General Sub-Internship

MEDICINE 9973 Surgery Orthopedics Sub-Internship

MEDICINE 9973-C81 Surgery Orthopedics Sub-Internship

MEDICINE 9974 Surgery Neurological Sub-Internship

MEDICINE 9974-C81 Surgery Neurological Sub-Internship
MEDICINE 9975-C81 Surgery-Trauma

MEDICINE 9992 Medical Topics in Health Care I

MEDICINE 9993 Medical Topics in Health Care II

School of Nursing
School of Nursing Graduate Courses

Nursing (NURSE)
NURSE 5508 Advanced Growth and Development
This course is designed to provide students with advanced comprehensive knowledge regarding the physical growth and psychosocial development from birth to 21 years of age within the context of the child's family and community. Analysis and interpretation of growth and development patterns will be examined as they relate to primary health care of children, birth to 21 years of age aiding in the determination of the health status.

NURSE 5509 Technical Foundations of Advanced Practice
This course will provide students with the advanced informatics skills necessary to develop an evidence-based reflective practice. Self-paced progressive modules will allow students to use advanced health care technologies to develop and apply informatics skills so that they can manage and communicate advanced clinical information and knowledge.

NURSE 5515NA Role Of The Nurse Administrator
This course builds upon the fundamentals of advanced practice nursing by focusing on the subrole of the nurse administrator. Content focuses on essential knowledge for today's senior and executive level manager in health care. Core content are principles of administration, resource management, managed care, budgeting, marketing, health care delivery system evaluation, and utilization of theory and research. This course consists of three hours of lecture/discussion per week. Due to the experiential learning activity associated with time spent with a nurse leader this class meets every OTHER week. Prerequisite: Admission to the MSN program or permission of instructor.

NURSE 5515NE Role of the Nurse Educator
This course will explore the role of the nurse educator within the academic, acute care, and outpatient settings. Emphasis will be on the development, evaluation, differences and implementation of the nurse educator in the functional roles. Students are introduced to the NLN Core Competencies of Nurse Educators to evaluate their own practice. Ethical and legal issues related to practice as a nurse educator are discussed.

NURSE 5516 Curriculum Development in Nursing
This course prepares the nurse educator to develop, review, and evaluate nursing curricula. Emphasis will be placed on theoretical foundations, principles of program evaluation, and issues in curriculum design. Prerequisites: N5515NE or consent of instructor.

NURSE 5516 Curriculum Development in Nursing
This course prepares the nurse educator to develop, review, and evaluate nursing curricula. Emphasis will be placed on theoretical foundations, principles of program evaluation, and issues in curriculum design. Prerequisites: N5515NE or consent of
instructor

NURSE 5517 Teaching Strategies in Nursing
This course examines principles, techniques, and evaluation methods in teaching nursing. Techniques concerning classroom management, writing objectives, test creation, clinical analysis and item analysis will be discussed. Emphasis will be placed on respecting the diverse learning needs of students in the educational environment. Prerequisites/Co-requisite: NURSE 5515NE or consent of instructor.

NURSE 5517 Teaching Strategies in Nursing
This course examines principles, techniques, and evaluation methods in teaching nursing. Techniques concerning classroom management, writing objectives, test creation, clinical analysis and item analysis will be discussed. Emphasis will be placed on respecting the diverse learning needs of students in the educational environment. Prerequisites/Co-requisite: NURSE 5515NE or consent of instructor.

NURSE 5526 Health Promotion Across The Lifespan
This course is designed to provide students with a strong knowledge base related to concepts of health promotion and health protection for clients across the life span. Clients are conceptualized as individuals, families and populations. An application of various developmental theories for the child, adult, older adult and family will provide the basis to individualize health-care needs for various age and family groups. Core concepts for the course include: theories of health and health promotion and protection, reasoned action, health belief model, epidemiology, disease and injury privation, health education, growth and development, nutrition, and family systems theory. Prerequisites/Co-Requisites: NURSE 5550 Theoretical Foundations in Nursing.

NURSE 5526 Health Promotion Across The Lifespan
This course is designed to provide students with a strong knowledge base related to concepts of health promotion and health protection for clients across the life span. Clients are conceptualized as individuals, families and populations. An application of various developmental theories for the child, adult, older adult and family will provide the basis to individualize health-care needs for various age and family groups. Core concepts for the course include: theories of health and health promotion and protection, reasoned action, health belief model, epidemiology, disease and injury privation, health education, growth and development, nutrition, and family systems theory. Prerequisites/Co-Requisites: NURSE 5550 Theoretical Foundations in Nursing.

NURSE 5527 Cultural Diversity & Values
This course explores how each individual's life context and social, cultural, political, historical, and economic influences (that is, one's culture) shape or, "construct" that individual's values, beliefs and behaviors. Applying concepts and theory from anthropology, philosophy, sociology, and nursing, the course expands students' basic knowledge of cultural diversity, approaches to culture and cultural competency, values and ethics-related terminology, theories of moral development, culture and value assessment skills, and ethical decision-making models for clinical practice. The values inherent in the development of advanced practice nursing are explored, and students examine their own understanding of the moral nature of advanced practice nursing. Core concepts for the course include: cultural awareness, cultural knowledge, cultural skill, cultural encounter, values clarification, ethical analysis, conflict of interest, and conflict resolution strategies. Offered: Every Fall, Every Summer

NURSE 5527 Cultural Diversity & Values
This course explores how each individual's life context and social, cultural, political, historical, and economic influences (that is, one's culture) shape or, "construct" that individual's values, beliefs and behaviors. Applying concepts and theory from anthropology, philosophy, sociology, and nursing, the course expands students' basic knowledge of cultural diversity, approaches to culture and cultural competency, values and ethics-related terminology, theories of moral development, culture and value assessment skills, and ethical decision-making models for clinical practice. The values inherent in the development of advanced practice nursing are explored, and students examine their own understanding of the moral nature of advanced practice nursing. Core concepts for the course include: cultural awareness, cultural knowledge, cultural skill, cultural encounter, values clarification, ethical analysis, conflict of interest, and conflict resolution strategies. Offered: Every Fall, Every Summer

NURSE 5528 Policy, Politics & Professional Ethics In Health Care
This course presents an overview of policy, politics, financing and professional ethics within the health care organizations and systems, with emphasis on current trends. Attention is given to the relationship between these issues and improving nursing health care delivery and outcomes. Offered: Every Winter & Every Summer

NURSE 5528 Policy, Politics & Professional Ethics In Health Care
This course presents an overview of policy, politics, financing and professional ethics within the health care organizations and systems, with emphasis on current trends. Attention is given to the relationship between these issues and improving nursing health care delivery and outcomes. Offered: Every Winter & Every Summer
NURSE 5530A The Experience Of Health In Aging: Physiological
This one-credit hour course is designed for students interested in understanding the role of health in the aging population. The 530A course will focus primarily on physiologic and psychological/cognitive functioning of the older adult. Theoretical, empirical and applied knowledge of the aging process is presented. This knowledge is utilized in assessing and interpreting the physiological and psychological influences of the aging on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population. This course meets for five weeks. Additionally, a field experience encompasses assessment and written documentation of in-person interviews conducted with an older adult. Instructional class activities include lecture, group discussion, written reactions, dialogue with visiting speakers, and health assessment papers presented by students.

NURSE 5530B The Experience Of Health In Aging: Relationship
This one-credit hour course is designed for students interested in understanding the role of health, environment and relationships in the aging population. The N530B course will focus primarily on loss/grief and relationships as these relate to the older adult. Theoretical, empirical and applied knowledge of the aging process is presented. This knowledge is utilized in assessing and interpreting the influences of relationships, intimacy, loss, grief, and dying on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population. This course meets for five weeks. Additionally, a field experience encompasses assessment and written documentation of in-person interviews conducted with an older adult. Instructional class activities include lecture, group discussion, written reactions, dialogue with visiting speakers, and health assessment papers presented by students. Offered: Every Winter

NURSE 5530C The Experience Of Health In Aging: Community
This one-credit hour course is designed for students interested in understanding the role of health, community, systems and service delivery in the aging population. The N530C course will focus primarily on community, health systems and service delivery as these relate to the older adult. Theoretical, empirical and applied knowledge of aging and the health system and delivery process is presented. This knowledge is utilized in assessing and interpreting the influence of the community and health care delivery systems on the health of older adults. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population. This course meets for five weeks. Additionally, a field experience encompasses assessment and written documentation of in-person interviews conducted with an older adult. Instructional class activities include lecture, group discussion, written reactions, dialogue with visiting speakers, and health assessment papers presented by students. Offered: Every Winter
NURSE 5546 Foundations of Family Psychiatric Nursing Advanced Practice
This foundational course focuses on factors impacting mental health and the development of psychiatric disorders. The scope of practice and roles if the Family Psychiatric Mental Health Nurse Practitioner will be introduced. Exploration of the foundations of therapeutic modalities both pharmacologic and non-pharmacologic is included. Comprehensive psychiatric evaluation skills will be developed. Attention will be given to the development of therapeutic relationships, assessment considerations across the lifespan, crises evaluation and different types of diagnostic tools and approaches. Diagnostic reasoning skills will be applied to mental illness and students will begin to integrate assessment finding into diagnoses found in the Diagnostic and Statistical Manual if Mental Disorders. Co-requisite: N5547M Diagnostic Reasoning/Health Assessment.

NURSE 5547A Diagnostic Reasoning/Advanced Assessment
This course is designed to provide a systematic approach to the advanced assessment of physiological, psychological, sociocultural, developmental and spiritual assessment of individuals. This course builds on basic health assessment skills and emphasizes utilizing advanced assessment skills, interpretation of diagnostic testing and lab values, validation, documentation and analysis of findings through diagnostic reasoning to develop and process differential diagnosis. This course consists of 3 hours lecture/discussion and 1 hour of clinical/lab credit (75 clock hours). Prerequisites: Free-standing Health Assessment Course.

NURSE 5547C Diagnostic Reasoning/Advanced Assessment
This course is designed to provide an evidence-based systematic approach to the advanced assessment of physiological, psychological, sociocultural, developmental and spiritual assessment of individuals. The course builds on basic health assessment skills and emphasizes advanced assessment skills, lab work interpretation, validation, documentation and analysis of findings to further develop an evidence-based practice. This course consists of three hours of didactic discussion and 1 hour of clinical/lab credit. Prerequisites: Free-standing Health Assessment Course.

NURSE 5547F Diagnostic Reasoning/Advanced Assessment
This course is designed to provide a systematic approach to the advanced assessment of physiological, psychological, sociocultural, developmental and spiritual assessment of individuals. This course builds on basic health assessment skills and emphasizes utilizing advanced assessment skills, interpretation of diagnostic testing and lab values, validation, documentation and analysis of finding through diagnostic reasoning to develop and process differential diagnosis. This course consists of 3 hours lecture/discussion and 1 hour of clinical/lab credit (75 clock hours). Prerequisites: Free-standing Health Assessment Course.

NURSE 5547M Diagnostic Reasoning/Health Assessment
This course is designed to provide a systematic approach to the advanced assessment of physiological, psychological, sociocultural, developmental and spiritual assessment of individuals. The course builds on basic health assessment skills and emphasizes utilizing advanced assessment skills, interpretation of diagnostic testing and lab values, validation, documentation and analysis of findings through diagnostic reasoning to develop and process differential diagnosis. Comprehensive and symptom focused examination and diagnostics will be covered with an emphasis on relationship of physical health and mental health. The course consists of two hours of didactic/discussion and one hour of clinical/lab credit (75 clock hours). Prerequisites: N5548 Adv. Pathophysiology Co-requisites: N5546 Foundations of Family Psychiatric Nursing Advanced Practice.

NURSE 5547N Advanced Assessment of The Neonate
This course is designed to provide a systematic approach to advanced assessment of physiological, psychological, sociocultural, developmental and spiritual assessment of the fetus, the mother during the prenatal period, and the neonate. This course builds on basic health assessment skills and emphasizes advanced assessment skills, diagnostic test interpretation, validation, documentation and analysis of prenatal, genetic and embryological factors impacting neonatal health and development. This three credit hour course consists of two hours of didactic / discussion per week and forty hours of clinical/lab per semester. Prerequisites: Admission to the MSN NNP program

NURSE 5547N Advanced Assessment of The Neonate
This course is designed to provide a systematic approach to advanced assessment of physiological, psychological, sociocultural, developmental and spiritual assessment of the fetus, the mother during the prenatal period, and the neonate. This course builds on basic health assessment skills and emphasizes advanced assessment skills, diagnostic test interpretation, validation, documentation and analysis of prenatal, genetic and embryological factors impacting neonatal health and development. This three credit hour course consists of two hours of didactic / discussion per week and forty hours of clinical/lab per semester. Prerequisites: Admission to the MSN NNP program

NURSE 5547NE Health Assessment & Clinical Reasoning for Nurse Educators
This course is designed to provide a systematic approach to teaching physiological, psychological, sociocultural, developmental and spiritual assessment. This course builds on basic health assessment skill and emphasizes 1) comprehensive assessment skills, interpretation of laboratory skills, validation of findings, documentation and analysis of assessment findings; and 2) teaching strategies- teaching methodologies, clinical application, and student evaluation. This course consists of 2 hours of
NURSE 5547PM Diagnostic Reasoning/Advanced Assessment
This course is designed to provide a systematic approach to the advanced assessment of physiological, psychological, sociocultural, development and spiritual assessment of individuals. The post-MSN student will build on previous advanced assessment skills and content with emphasis on adding advanced physical assessment skills, lab work interpretation, validation, documentation and analysis of assessment findings appropriate to their desired role area. Students will meet the same outcome standards of the track in which they are currently enrolled. This course consists of 1.5 hrs of lecture/discussion and .5 hours of clinical/lab credit (40 minimum clinical hours and approval of faculty. Prerequisites: Free-standing Health Assessment Course.

NURSE 5547W Diagnostic Reasoning/Advanced Assessment
This course is designed to provide a systematic approach to the advanced assessment of physiological, psychological, sociocultural, developmental and spiritual assessment of individuals. This course builds on basic health assessment skills and emphasizes utilizing advanced assessment skills, interpretation of diagnostic testing and lab values, validation, documentation and analysis of findings through diagnostic reasoning to develop and process differential diagnosis. This course consists of 3 hours lecture/discussion and 1 hour of clinical/lab credit (75 clock hours). Prerequisites: Free-standing Health Assessment Course.

NURSE 5548 Advanced Pathophysiology
Advanced pathophysiology is the study of the alterations of normal physiological functioning in cellular, tissue, organ and organ systems. These alterations form the basis for understanding a variety of pathophysiological conditions and the manifestations and impact of abnormal physiological functioning on clients across the life-span. Advanced pathophysiology deals with both generalized processes and major organ system dysfunctions. This course consists of three hours of lecture/discussion per week.

NURSE 5548 Advanced Pathophysiology
Advanced pathophysiology is the study of the alterations of normal physiological functioning in cellular, tissue, organ and organ systems. These alterations form the basis for understanding a variety of pathophysiological conditions and the manifestations and impact of abnormal physiological functioning on clients across the life-span. Advanced pathophysiology deals with both generalized processes and major organ system dysfunctions. This course consists of three hours of lecture/discussion per week.

NURSE 5548C Advanced Pediatric Pathophysiology
In this course, embryology of the major organ systems, as well as specific physiologic and pathophysiologic processes relevant to the child from birth through age 21 years if age will be studied. This course focuses on the implications for advanced nursing practice that result from alterations of normal physiologic functioning in cellular, tissue, and organ systems. Emphasis is placed on the relationship between pathophysiology, decision-making, and evidence-based standards of advanced nursing practice.. Prerequisites: Admission to the PNP program or permission of the instructor.

NURSE 5548C Advanced Pediatric Pathophysiology
In this course, embryology of the major organ systems, as well as specific physiologic and pathophysiologic processes relevant to the child from birth through age 21 years if age will be studied. This course focuses on the implications for advanced nursing practice that result from alterations of normal physiologic functioning in cellular, tissue, and organ systems. Emphasis is placed on the relationship between pathophysiology, decision-making, and evidence-based standards of advanced nursing practice.. Prerequisites: Admission to the PNP program or permission of the instructor.

NURSE 5548N Physiology/Pathophysiology Of The Neonate
Concepts of embryology, neonatal physiology and pathophysiology are used to provide an in-depth study of normal functioning and alteration of normal physiological functioning in cellular, tissue, organ, and organ systems. Alterations form the basis for understanding a variety of pathophysiologic conditions and the manifestations and impact of abnormal physiological functioning on neonates. Both generalized processes and major system dysfunctions are addressed. This three credit hours course consists of three hours of lecture and discussion each week. Prerequisites: Admission to the Neonatal Nurse Practitioner Track/Master of Science in Nursing or consent of the instructor.

NURSE 5548N Physiology/Pathophysiology Of The Neonate
Concepts of embryology, neonatal physiology and pathophysiology are used to provide an in-depth study of normal functioning and alteration of normal physiological functioning in cellular, tissue, organ, and organ systems. Alterations form the basis for understanding a variety of pathophysiologic conditions and the manifestations and impact of abnormal physiological functioning on neonates. Both generalized processes and major system dysfunctions are addressed. This three credit hours course consists of three hours of lecture and discussion each week. Prerequisites: Admission to the Neonatal Nurse Practitioner Track/Master of Science in Nursing or consent of the instructor.

NURSE 5549 Pharmacology For Advanced Nursing Practice
This is a course in clinical pharmacotherapeutics that builds on prior knowledge of drug classification, actions, interactions and
adverse drug reactions. The major focus of the course is the pharmacotherapeutic use of medications for primary health care management by advanced practice nurses. Emphasis is placed on the clinical critical thinking process used to prescribe drugs in the management of specific illnesses. The Missouri laws for advanced practice nurse prescriptive authority will be addressed. Core concepts include pharmacodynamics, pharmacokinetics, pharmacotherapeutics, health-related information, medication compliance and issues that pertain to the prescribing of medications in advanced nursing practice. This course consists of three hours of lecture/discussion/in-class clinical module work per week. Prerequisite: NURSE 5547 & 5548 Co-requisite: N5364

NURSE 5549 Pharmacology For Advanced Nursing Practice
This is a course in clinical pharmacotherapeutics that builds on prior knowledge of drug classification, actions, interactions and adverse drug reactions. The major focus of the course is the pharmacotherapeutic use of medications for primary health care management by advanced practice nurses. Emphasis is placed on the clinical critical thinking process used to prescribe drugs in the evidence-based practice management of specific illnesses. Students will examine their own state law for advanced practice nurse prescriptive authority. Core concepts include pharmacodynamics, pharmacokinetics, pharmacotherapeutics, health-related information, medication compliance and issues that pertain to the prescribing of medications in advanced nursing practice. Prerequisite: NURSE 5548C Advanced Pathophysiology or permission of the instructor.

NURSE 5549C Pediatric Pharmacology For Advanced Nursing Practice
This is a course in clinical pharmacotherapeutics that builds on prior knowledge of drug classifications, actions, interactions and adverse drug reactions. The major focus of the course is the pharmacotherapeutic use of medications for management of children from birth to 21 years of age by advanced practice nurses. Emphasis is placed on the clinical critical thinking process used to prescribe drugs in the evidence-based practice management of specific illnesses. Students will examine their own state law for advanced practice nurse prescriptive authority. Core concepts include pharmacodynamics, pharmacokinetics, pharmacotherapeutics, health-related information, medication compliance and issues that pertain to the prescribing of medications in advanced nursing practice. Prerequisite: NURSE 5548C Advanced Pathophysiology or permission of the instructor.

NURSE 5549N Pharmacology for the Neonate
This course in clinical pharmacotherapeutics builds on prior knowledge of drug classifications, actions, interactions and adverse drug reactions in the neonatal population. The major focus of the course is the pharmacotherapeutic use of medications for management of neonates by advanced practice nurses. Emphasis is placed on the clinical critical thinking process used to prescribe drugs in the management of specific neonatal illnesses. Various state laws pertaining to prescriptive authority for advanced practice nurses will be addressed. Core concepts include: pharmacodynamics, pharmacokinetics, health-related information and issues that pertain to the prescribing of medications in advanced nursing practice. Prerequisites: NURSE 5547N, NURSE 5548N or consent of the instructor.

NURSE 5549N Pharmacology for the Neonate
This course in clinical pharmacotherapeutics builds on prior knowledge of drug classifications, actions, interactions and adverse drug reactions in the neonatal population. The major focus of the course is the pharmacotherapeutic use of medications for management of neonates by advanced practice nurses. Emphasis is placed on the clinical critical thinking process used to prescribe drugs in the management of specific neonatal illnesses. Various state laws pertaining to prescriptive authority for advanced practice nurses will be addressed. Core concepts include: pharmacodynamics, pharmacokinetics, health related information and issues that pertain to the prescribing of medications in advanced nursing practice. Prerequisites: NURSE 5547N, NURSE 5548N or consent of the instructor.

NURSE 5550 Theoretical Foundations In Nursing
This course focuses on critical analysis of theory and the utilization of various levels of nursing and related theories as a base for nursing at the graduate level. It further examines the inter-relationship of theory, research and practice in the development of a scientific body of nursing knowledge. The student will analyze methods by which knowledge is gained and validated. Students will synthesize several different theories from which to form the basis of their practice. Relationships of theory, practice and research will be discussed. Prerequisite: Completion of BSN.
NURSE 5550 Theoretical Foundations In Nursing
This course focuses on critical analysis of theory and the utilization of various levels of nursing and related theories as a base for nursing at the graduate level. It further examines the inter-relationship of theory, research and practice in the development of a scientific body of nursing knowledge. The student will analyze methods by which knowledge is gained and validated. Students will synthesize several different theories from which to form the basis of their practice. Relationships of theory, practice and research will be discussed. Prerequisite: Completion of BSN.

NURSE 5551A Pharmacology for Women's Health: Lifestyle and Preventive Healthcare
This course in clinical pharmacology builds on current knowledge of drug classification, actions, interactions and adverse drug reactions. The focus is the use of medications by advanced practice providers in the management of preventive healthcare and lifestyle choices in women's health. Emphasis will be placed on the evidence based pharmacological management, benefits, effectiveness, and adverse effects on selected vitamins, immunizations and alternative therapies such as herbs and botanical products. Drugs to promote optimum weight loss, nicotine replacement therapies and drugs of abuse will also be discussed. This four-week course consists of online discussion, case studies and quizzes. Prerequisites: Advanced Pharmacology course or Instructor Approval.

NURSE 5551B Pharmacology for Women's Health: Common Medical Conditions
This course in clinical pharmacology builds on current knowledge of drug classification, actions, interactions, and adverse drug reactions. The focus is the use of medications by advanced practice providers in the management of common medical conditions in women's health. Emphasis will be placed on the evidence based pharmacological management of women with medical conditions such as cardiovascular conditions, autoimmune disorders, diabetes, gastrointestinal conditions, lower urinary tract disorders, drugs that promote mental health, dermatological conditions, and an overview of chemotherapeutics. This four-week course consists of online discussion, case studies and quizzes. Prerequisites: Advanced Pharmacology course or Instructor approval.

NURSE 5551C Pharmacology for Women's Health: Gyn/Preg/Lact/Postpart
This course in clinical pharmacology builds on current knowledge of drug classification, actions, interactions, and diverse drug reactions. The focus is the use of medications by advanced practice providers in the management of specific gynecologic and obstetrical conditions associated with the female reproductive organs such as contraception, sexually transmitted infections, pelvic and menstrual disorders, vaginal and vulvar disorders, sexual dysfunction, and postmenopause. Discussions will also include the pharmacologic management of a variety of conditions that can occur during pregnancy, lactation, and postpartum. This four-week course consists of online discussion, case studies, and quizzes. Prerequisites: Advanced Pharmacology course or instructor approval.

NURSE 5555 Nursing Research
This course is designed to prepare graduate nursing students to utilize research findings in order to provide high quality health care and improve nursing practice. This knowledge includes fundamentals of research methods, procedures for the evaluation of research and the application of research findings to clinical practice and organizational decision making. Prerequisites: Nursing 5550 and a graduate level statistics course.

NURSE 5555 Nursing Research: Evidence Based Practice
This course is designed to prepare the student with the knowledge required to utilize research findings to provide high quality health care and improve nursing practice. This knowledge includes fundamentals of research methods, procedures for the evaluation of research and the application of research findings to clinical practice and organizational decision making. Prerequisites/Co-requisite NURSE 5550 Theoretical Foundations in Nursing & an upper division statistics course

NURSE 5556 Program Evaluation
This survey course is designed to introduce students to the philosophy, theory, and methodology of program evaluation. The end point of this course is that graduate students will be able to design, implement, and evaluate research, education and/or social programs within the context of their primary focus of study (i.e. clinical or role).

NURSE 5556 Program Evaluation
This survey course is designed to introduce students to the philosophy, theory, and methodology of program evaluation. The end point of this course is that graduate students will be able to design, implement, and evaluate research, education and/or social programs within the context of their primary focus of study (i.e. clinical or role).

NURSE 5557 Qualitative Methods In Nursing Research
This course is designed to provide the student with the skills necessary to the understanding and conduct of qualitative research. Various methods, including ethnographic, phenomenologic, historic, grounded theory and aesthetic inquiry are presented and discussed. Emphasis is placed upon the appropriateness of each method for different research problems. This course consists of three hours of lecture/discussion per week. Prerequisites/requisites: NURSE 5550 and NURSE 5555.
NURSE 5557 Qualitative Methods In Nursing Research
This course is designed to provide the student with the skills necessary to the understanding and conduct of qualitative research. Various methods, including ethnographic, phenomenologic, historic, grounded theory and aesthetic inquiry are presented and discussed. Emphasis is placed upon the appropriateness of each method for different research problems. This course consists of three hours of lecture/discussion per week. Prerequisites/requisites: NURSE 5550 and NURSE 5555.

NURSE 5558 Research Design
This course is designed to provide the student with experience in the development of a research proposal. Research skills acquired in previous courses will be synthesized to produce the components of a proposal. Prerequisite: NURSE 5555

NURSE 5558 Research Design
This course is designed to provide the student with experience in the development of a research proposal. Research skills acquired in previous courses will be synthesized to produce the components of a proposal. Prerequisite: NURSE 5555

NURSE 5564A Primary Care Of Adults I
This course is designed to prepare nurse practitioner students to manage common health problems of adults. The focus is on developmentally appropriate preventive health care and management of common acute/episodic illnesses. Students will integrate role competencies, professional standards, and legal requirements essential to the NP role. Core content includes differential diagnosis, therapeutic management, adherence, anticipatory guidance, patient/family education, legal and professional issues, standards of practice, and advanced practice role competencies. This course consists of 2 credit hours of didactic and 2 credit hours of clinical (165 hours). Clinical practice and clinical seminar comprise the clinical experience. Prerequisites: NURSE 5526, 5547, 5548, 5550, and Co-requisites NURSE 5549, 5555.

NURSE 5564C Primary Care of Children I
This course is designed to prepare nurse practitioner students to manage common pediatric health problems. The focus is on evidence-based developmentally appropriate preventive health care and management of common acute/episodic illnesses. Students will integrate role competencies, professional standards, and legal requirements essential to the NP role. Core content includes differential diagnosis, therapeutic management, adherence, anticipatory guidance, patient/family education, legal and professional issues, standards of practice, and advanced practice role competencies. This course consists of 2 credit hours of didactic and 2 credit hours of clinical (165 hours). Clinical practice and clinical seminar comprise the clinical experience. Prerequisites: NURSE 5526, 5547I, 5548I, 5550. Corequisites: NURSE 5549C, 5555.

NURSE 5564F Primary Care Of Families I
This course is designed to prepare nurse practitioner students to manage common health problems across the life span. The focus is on developmentally appropriate preventive health care and management of common acute/episodic illnesses. Students will integrate role competencies, professional standards, and legal requirements essential to the NP role. Core content includes differential diagnosis, therapeutic management, adherence, anticipatory guidance, patient/family education, legal and professional issues, standards of practice, and advanced practice role competencies. This five credit hour course consists of three didactic/discussion per week and 165 hours (two credit hours) of clinical/lab per semester. Prerequisites: NURSE 5526, NURSE 5547F, NURSE 5550 Corequisites: NURSE 5549F. NURSE 5555

NURSE 5564M Family Psychiatric Nursing Advanced Practice I
This course is designed to prepare students to manage psychiatric illness in individuals. Emphasis will be given to psychiatric disorders commonly encountered such as thought disorders, mood disorders, anxiety disorders, personality disorders and substance abuse. Special attention will be given to illnesses occurring in childhood and older age. Focus will be on strengthening mental health diagnostic skills and management of psychiatric illness in individuals. Students will learn to identify and treat short term mental health issues, chronic disorders and acute exacerbations. Psychotropic medication management skills will be developed. Students will begin their clinical hours during this course with a minimum of 165 in total. Patients seen in clinical settings will be across the lifespan. The course consist of three hours didactic/discussion and two hours of clinical/lab credit (165 clock hours). Prerequisites: N5526, N5546, N5547M, N5548, N5550 Co-requisites: N5549 Advanced Pharmacology

NURSE 5564N Neonatal Nursing I
This course integrates the physiologic, pharmacological, and assessment skills and principals in determining appropriate care of the ill neonate. This course covers case management of the respiratory, cardiovascular and neurologic disorders while the concurrent course, NURSE 5566N, covers the gastrointestinal, renal, endocrine, hematologic, orthopedic, dermatologic and immune system disorders. Current research and evidence based practices are used as the course framework. The effects of clinical conditions on the growth and development of the neonate, including subsequent chronic health problems as well as the short and long term consequences to the child's family are emphasized. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory / clinical settings during the forty hours of required clinical activities. This three credit hour course consists of two hours of didactic/discussion and one hour of clinical experience consisting of laboratory, clinical seminars, clinical observation and practice. Corequisite: NURSE 5566N
NURSE 5564N Neonatal Nursing I
This course integrates the physiologic, pharmacological, and assessment skills and principals in determining appropriate care of the ill neonate. This course covers case management of the respiratory, cardiovascular and neurologic disorders while the concurrent course, NURSE 5566N, covers the gastrointestinal, renal, endocrine, hematologic, orthopedic, dermatologic and immune system disorders. Current research and evidence-based practices are used as the course framework. The effects of chronic conditions on the growth and development of the neonate, including subsequent chronic health problems as well as the short and long term consequences to the child's family are emphasized. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory / clinical settings during the forty hours of required clinical activities. This three credit hour course consists of two hours of didactic / discussion and one hour of clinical experience consisting of laboratory, clinical seminars, clinical observation and practice. Corequisite: NURSE 5566N

NURSE 5564NE Clinical for Nurse Educators
This clinical course provides students an opportunity to develop advanced knowledge and clinical skills in an acute care clinical setting. Clinical practice hours will be spent in a variety of settings providing the students the opportunity to provide clinical education and advanced patient care in a specialty population. The students demonstrate their clinical development by evaluating the process of nursing care (assessment, intervention/management, evaluation) from an evidence-based perspective incorporating advanced pharmacologic concepts. The course will include two hours of didactic and three hours of clinical practice which includes a minimum of 180 clinical hours. Prerequisites: All required courses except N5572 and N5598 (can be co-requisite)

NURSE 5564W Primary Health Care Of Women
This course is designed to prepare the woman's health nurse practitioner student to manage the primary health care of women. This course will focus on the etiology, symptomatology, diagnosis and management of gynecologic and non-gynecologic primary health care problems throughout the lifespan. Emphasis will be placed on caring for women within a holistic framework and recognizing how the changing roles of women in today's society can affect their lives and their health status. Concepts, theories and evidence-based practice related to health promotion, health maintenance and restoration, illness prevention and collaboration will be addressed. Core content: differential diagnosis, management, adherence, anticipatory guidance, patient/family education, adaptation and crisis, legal and professional issues, standards of practice, and advanced practice role competencies. This course will consist of three credit hours of didactic/discussion and two credit hours of clinical practice for a minimum of 165 hours in the clinical setting. Prerequisites: NURSE 5526, NURSE 5547W, NURSE 5548, NURSE 5550 & pre/co-requisite: NURSE 5549

NURSE 5566A Primary Care of Adults II
This course is designed to prepare adult nurse practitioner (NP) students in the care and management of adults and adult population with chronic health problems. The focus of the course is on the differentiation and therapeutic management of chronic health problems encountered by adult NPs in various health care setting. Emphasis is given to those chronic health issues most commonly encountered by adult NPs. Students will be expected to apply cumulative knowledge acquired from previous graduate courses. This course enables students to develop a research and theory-based practice for disease state management of health care for adults. Core concepts: theories, grief and loss, chronicity and pain; and advanced nursing skills. This four credit hour course consists of two of didactic/discussion per week and 165 hours (2 credit hours) of clinical/lab semester. Prerequisites: NURSE 5564A, NURSE 5549

NURSE 5566C Chronic Child Health Care (Clinical II)
This course is designed to provide students with the opportunity to apply knowledge and skill from advanced assessment, pathophysiology, pharmacology, health promotion, research and theory to advanced nursing care of patients and families experiencing complex or chronic health problems. Emphasis is placed on using models and theories that guide advanced practice and on determining the current research base on nursing assessment and management in several specific areas of knowledge. The organizing framework for this course is case management of chronic health states. Students will apply several theoretical models to acute and chronic health states of children at various developmental stages representing various socioeconomic and cultural groups, either in primary or specialized care settings. Core concepts are stress and coping, adaptation, pain management, grief and loss, nutritional support, ethical decision-making, case management, and symptom management. This four credit hour course will consist of two hours of didactic and two hours of clinical practice (165 hours). Prerequisites: NURSE 5564C

NURSE 5566C Chronic Child Health Care (Clinical II)
This course is designed to provide students with the opportunity to apply knowledge and skill from advanced assessment, pathophysiology, pharmacology, health promotion, research and theory to advanced nursing care of patients and families
experiencing complex or chronic health problems. Emphasis is placed on using models and theories that guide advanced practice and on determining the current research base on nursing assessment and management in several specific areas of knowledge. The organizing framework for this course is case management of chronic health states. Students will apply several theoretical models to acute and chronic health states of children at various developmental stages representing various socioeconomic and cultural groups, either in primary or specialized care settings. Core concepts are stress and coping, adaptation, pain management, grief and loss, nutritional support, ethical decision-making, case management, and symptom management. This four credit hour course will consist of two hours of didactic and two hours of clinical practice (165 hours). Prerequisites: NURSE 5564C

NURSE 5566F Primary Care of Families II
This course is designed to provide students with the opportunity to apply knowledge from previous family nurse practitioner courses to advanced primary care nursing of individuals and families across the life span. The focus of the course is on the application of the nursing process in the differentiation and therapeutic management of stable chronic health problems encountered by family nurse practitioners in the primary health care setting. Emphasis is on the integration of advanced nursing concepts and pharmacokinetic principles in the care of individuals and families. Core content includes stress and coping, adaptation, pain management, and grief and loss. This four hour course consists of two hours of didactic/discussion per week and 165 (two credit hours) of clinical/lab per semester. Prerequisites: NURSE 5549 and NURSE 5564F

NURSE 5566M Family Psychiatric Nursing Advanced Practice II
In this course, management of mental health problems will expand beyond the individual to include families, groups and the greater community. This course will emphasize development of psychotherapy skills by the advanced practice nurse. Theoretical foundations and intervention approaches for individuals, group and family therapies will be explored. Unique or modified approaches for pediatric and older adult populations will be covered. Students will be exposed to the common psychotherapy modalities and will begin to identify which approaches they will adopt and utilize in psychotherapy clinical experiences. Clinical management will also be expanded from outpatient settings to include crisis evaluation and inpatient care. A minimum of 165 clinical hours are required in this course. Patients seen in clinical settings will be across the lifespan. The course consists of three hours didactic/discussion and two hours of clinical/lab credit (165 clock hours). Prerequisites: N5564M and N 5549

NURSE 5566N Neonatal Nursing II
This course integrates the physiologic, pharmacological, and assessment skills and principals in determining appropriate care of the ill neonate. This course covers case management of the gastrointestinal, renal, endocrine, hematologic, orthopedic, dermatologic and immune system disorders while the concurrent course, NURSE 5566N, covers the respiratory, cardiovascular and neurologic disorders. Current research and evidence based practices are used as the course framework. The effects of clinical conditions on the growth and development of the neonate, including subsequent chronic health problems as well as the short and long term consequences to the child's family are emphasized. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory / clinical settings during the forty hours of required clinical activities. This three credit hour course consists of two hours of didactic/discussion and one hour of clinical experience consisting of laboratory, clinical seminars, clinical observation and practice. Prerequisite: NURSE 5549N, Corequisite: NURSE 5566N

NURSE 5566N Neonatal Nursing II
This course integrates the physiologic, pharmacological, and assessment skills and principals in determining appropriate care of the ill neonate. This course covers case management of the gastrointestinal, renal, endocrine, hematologic, orthopedic, dermatologic and immune system disorders while the concurrent course, NURSE 5566N, covers the respiratory, cardiovascular and neurologic disorders. Current research and evidence based practices are used as the course framework. The effects of clinical conditions on the growth and development of the neonate, including subsequent chronic health problems as well as the short and long term consequences to the child's family are emphasized. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory / clinical settings during the forty hours of required clinical activities. This three credit hour course consists of two hours of didactic / discussion and one hour of clinical experience consisting of laboratory, clinical seminars, clinical observation and practice. Prerequisite: NURSE 5549N, Corequisite: NURSE 5566N

NURSE 5566W Care Of The Childbearing Woman
This course is designed to prepare the woman's health nurse practitioner students in the care and management of the childbearing woman. The focus of the course is on the normal adaptation and pathologic alterations throughout the childbearing period. Emphasis is placed on management of women and families from preconception through the puerperium. Concepts, theories and evidence-based research related to the biopsychosocial and cultural aspects of childbearing will be addressed. Core concepts include adaptation, stress and coping, grief and loss, pain and symptoms management. This course will consist of two credit hours of didactic/discussion and two credit hours of clinical experience to consist of a minimum of 165 hours in the clinical setting. Prerequisite: NURSE 5564PW

NURSE 5572 Advanced Nursing Practice: Synthesis Practicum
This course is a concentrated, experiential, supervised clinical opportunity to function in an advanced practice nursing role. The focus of this intensive clinical practicum is on the synthesis and application of previous theory and clinical courses under the guidance of a preceptor. Students will be expected to apply advanced clinical decision making skills and evidence based practice

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guidelines to the assessment, management, and evaluation of complex healthcare problems. Core concepts include advanced nursing practice, functional role responsibilities, ethical, legal and health policy issues, and activities with the emphasis on their relationship to patient outcomes. The patient systems for this experience include individuals and families within the context of community. Students will obtain a minimum of 330 hours of clinical/conferences (4 hours) and one hour of didactic content for the semester. Prerequisites: All required courses except N 5598/5599 and electives.

NURSE 5572II Preceptorship II
This course provides opportunities to apply knowledge and skills from advanced nursing role, theory, research and neonatal clinical courses to the advances therapeutic management of high-risk neonates. This is the first of two preceptorships courses. The other course, NURSE 5572NI, can be taken concurrently or in consecutive semesters. Emphasis is placed on therapeutic measures within a conceptual framework or model applying findings from research relevant to comprehensive care of neonates. The client system will be the neonate and family. This course consists of five credit hours of clinical experiences consisting of a minimum of 300 hours of practice and clinical seminars. Pre or Co-requisites: NURSE 5572NI

NURSE 5572M Advanced Nursing Practice: Synthesis Practicum
This course is a concentrated, experimental, supervised clinical opportunity to function in a psychiatric advanced practice nursing role. The focus of this intensive clinical practicum is on the synthesis and application of previous theory and clinical courses under the guidance of a preceptor. Students will be expected to apply advanced clinical decision making skills and evidence based practice guidelines to the assessment, management, and evaluation of complex healthcare problems. Core concepts include advanced nursing practice, functional role responsibilities, ethical, legal and health policy issues, consultation/collaboration and activities with the emphasis on their relationship to patient outcomes. A minimum of 330 clinical hours is required. Patients seen in clinical settings will be across the lifespan. The course consists of one hour didactic/discussion and four hours of clinical/lab credit (330 clock hours) Prerequisites: All required courses except N5598.

NURSE 5572NA Advanced Nursing Practice: Synthesis Practicum
This course is designed to afford the student a concentrated, experiential opportunity to function in the role she/he has chosen to pursue professionally. This course consists of nine hours of clinical experience per week and a conference every other week. Prerequisites: All courses except NURSE 5598 / NURSE 5599.

NURSE 5572NA Advanced Nursing Practice: Synthesis Practicum
This course is designed to afford the student a concentrated, experiential opportunity to function in the role she/he has chosen to pursue professionally. This course consists of nine hours of clinical experience per week and a conference every other week. Prerequisites: All courses except NURSE 5598 / NURSE 5599.

NURSE 5572NE Synthesis Practicum for Nurse Educators
This course provides the student a concentrated, experiential opportunity to function in the role as a nurse educator. Core concepts include functional role responsibilities, teaching strategies and theory utilization. Emphasis is placed on professional role development and the concept of lifelong learning. This course consists of three hours of clinical which requires a minimum of 180 clinical hours. Prerequisites: All required courses except NURSE 5598; Post-master's certificate students only may also take N5516 as a co-requisite

NURSE 5572NE Synthesis Practicum for Nurse Educators
This course provides the student a concentrated, experiential opportunity to function in the role as a nurse educator. Core concepts include functional role responsibilities, teaching strategies and theory utilization. Emphasis is placed on professional role development and the concept of lifelong learning. This course consists of three hours of clinical which requires a minimum of 180 clinical hours. Prerequisites: All required courses except NURSE 5598; Post-master's certificate students only may also take N5516 as a co-requisite

NURSE 5572NI Preceptorship I
This course provides opportunities to apply knowledge and skills from advanced nursing role, theory, research and neonatal clinical courses to the advanced therapeutic management of high-risk neonates. This is the first of two preceptorships courses. The other course, NURSE 5572NI, can be taken concurrently or in consecutive semesters. Emphasis is placed on therapeutic measures within a conceptual framework or model applying findings from research relevant to comprehensive care of neonates. The client system will be the neonate and family. This course consists of five credit hours of clinical experiences consisting of a minimum of 300 hours of practice and clinical seminars. Prerequisites: NURSE 5564N, NURSE 5566N

NURSE 5587 Research Utilization In Nursing
This course will prepare nurses to implement a research utilization model to validate practice. The theoretical basis for research utilization and practical instances of its application in nursing will be examined. Opportunities will be provided to develop a research utilization plan to address a clinical area of practice. Prerequisites: NURSE 5550, NURSE 5555
NURSE 5587 Research Utilization In Nursing
This course will prepare nurses to implement a research utilization model to validate practice. The theoretical basis for research utilization and practical instances of its application in nursing will be examined. Opportunities will be provided to develop a research utilization plan to address a clinical area of practice. Prerequisites: NURSE 5550, NURSE 5555

NURSE 5597A Independent Study In Nursing/Patient Care-Elective
Guided study of selected topics and/or areas in nursing and/or patient care. Prerequisites: NURSE 550 and permission of faculty.

NURSE 5597A Independent Study In Nursing/Patient Care-Elective
Guided study of selected topics and/or areas in nursing and/or patient care. Prerequisites: NURSE 550 and permission of faculty.

NURSE 5597B Independent Study In Nursing/Patient Care-Equivalent
Guided study of selected topics and/or areas in nursing and/or patient care. Prerequisites: NURSE 550 and permission of faculty.

NURSE 5597B Independent Study In Nursing/Patient Care-Equivalent
Guided study of selected topics and/or areas in nursing and/or patient care. Prerequisites: NURSE 550 and permission of faculty.

NURSE 5597EC Independent Study In Nursing

NURSE 5597EC Independent Study In Nursing

NURSE 5597HA Independent Study in Nursing

NURSE 5597P1 Independent Study in Nursing

NURSE 5597P2 Independent Study in Nursing

NURSE 5597PN Independent Study Nursing

NURSE 5597ST Independent Study In Nursing

NURSE 5598 Directed Research
Individual research project for students to use beginning research skills in designing and conducting independent studies under the direction of the faculty. Prerequisites: NURSE 550, NURSE 555 and permission of faculty.

NURSE 5598 Directed Research
Individual research project for students to use beginning research skills in designing and conducting independent studies under the direction of the faculty. Prerequisites: NURSE 550, NURSE 555 and permission of faculty.

NURSE 5599 Research Thesis
Individual study under the direction of a member of the faculty leading to the preparation and oral defense of a thesis. Prerequisites: NURSE 5550, NURSE 5555 and permission of faculty.

NURSE 5599 Research Thesis
Individual study under the direction of a member of the faculty leading to the preparation and oral defense of a thesis. Prerequisites: NURSE 5550, NURSE 5555 and permission of faculty.

NURSE 5602 Healthcare Systems & Leadership
This course focuses on the DNP as leader in the complex health care industry. Utilizing information technology, an in-depth study of the socio-political, economic, cultural and historical background of the American health care system & the system of health professions will form the foundation for exploration of leadership needs & the DNP leadership role. Prerequisites: Admission to the DNP program.

NURSE 5602 Healthcare Systems & Leadership
This course focuses on the DNP as leader in the complex health care industry. Utilizing information technology, an in-depth
study of the socio-political, economic, cultural and historical background of the American health care system & the system of health professions will form the foundation for exploration of leadership needs & the DNP leadership role. Prerequisites: Admission to the DNP program.

NURSE 5603 Research Institute I
This course will provide a hands-on introduction to the process of becoming a research scientist. Content will include the responsible conduct of research, its core element, the emerging guideline, relevant UMKC policies and procedures, and the impact to the Researcher in his/her day-to-day activities. This course also includes literature reviews, scholarly writing, technology in the Research process, developing a program of scholarship and effective time management. Prerequisite: Admission to the PhD Nursing Program

NURSE 5604 Research Institute II
This course will provide interactive sessions to develop skills necessary for the synthesis of research findings, the identification of funding sources and the initiation of the grant writing process. Also included will be the opportunity to develop and present research findings in multiple venues. Prerequisites: Completion of NURSE 5603 and six credit hours of PhD. coursework.

NURSE 5606 Healthcare Policy & Advocacy
This course is designed to focus on the integral relationship between health care policy and advocacy as a DNP prepared advanced practice nurse. The student will employ best evidence, technology, political statistics, and engagement and leadership in public and organizational policy and advocacy processes to effect positive change in relation to particular and complex problems. Content will include principles and processes related to U.S. health policy and politics in relation to the overall system and issues of cost, quality and access; interrelationships between policy, political trends, and quality of care and access at the point of service; elimination of health care disparities, ethical and obligatory values related to the role of the DNP nurse. Prerequisite: NURSE 5602

NURSE 5608 Theory Development I
Selected readings in philosophy of science will be used as the context for exploring the philosophical underpinnings of nursing and the rise of nursing science. Students will discuss how changes and shifts occur in paradigms, world views, and bodies of knowledge. The discipline of nursing and the relationship among nursing theory, research, and practice will be discussed. Integration of theory into the development of research-based nursing knowledge will be explored, with emphasis on empirical evidence, hypothesis development, study design, research design, and translation into clinical practice. Prerequisite: 12 credit hours of master's level coursework, including theory

NURSE 5610 Theory Development In Nursing II
Nursing and non-nursing models, frameworks, and theories will be analyzed and critically evaluated using a variety of criteria. Students will identify the range of applicable theories for their area of research. Appropriate application of theories to independent and dependent variables, mediators, moderators, cofactors, correlates, and outcomes will be explored. Students will develop hypotheses, research goals and objectives that extend the implications and application of an identified theory in clinical nursing practice. Prerequisites: NURSE 5608

NURSE 5610 Theory Development In Nursing II
Nursing and non-nursing models, frameworks, and theories will be analyzed and critically evaluated using a variety of criteria. Students will identify the range of applicable theories for their area of research. Appropriate application of theories to independent and dependent variables, mediators, moderators, cofactors, correlates, and outcomes will be explored. Students will develop hypotheses, research goals and objectives that extend the implications and application of an identified theory in clinical nursing practice. Prerequisites: NURSE 5608

NURSE 5611 Healthcare Economics & Quality
This course focuses on the principles of, and complex relationship between cost and efficiency and effectiveness and health care quality outcomes. Economic perspectives and needs from industry, organizations, providers and consumers will all be examined. Throughout the course, issues regarding the inextricable link between cost and quality within the complex healthcare environment will be examined and addressed, with emphasis on DNP nurse intervention and leadership. Prerequisites: N 5602.

NURSE 5611 Healthcare Economics & Quality
This course focuses on the principles of, and complex relationship between cost and efficiency and effectiveness and health care quality outcomes. Economic perspectives and needs from industry, organizations, providers and consumers will all be examined. Throughout the course, issues regarding the inextricable link between cost and quality within the complex healthcare
environment will be examined and addressed, with emphasis on DNP nurse intervention and leadership. Prerequisites: N 5602.

**NURSE 5612** Statistics I
This graduate statistics on-line course is designed for students in the PhD nursing program. The course provides a comprehensive understanding of: describing data, logic of sampling and test statistics; hypothesis testing, type 1 and 2 errors; power; one-way ANOVA (analysis of variance); planned comparison, post-hoc tests and trend analysis; factorial ANOVA; repeated measures designs and mixed randomized repeated designs; simple and multiple regression; ANCOVA (analysis of co-variance). Prerequisites: Upper division undergraduate basic statistics course (with grade of "B" or better)

**NURSE 5614** Health Policy & Ethics
This course examines health policy and ethics as they intersect with other public policies. Legal, financial, and ethical issues associated with policy development and evaluation are critically examined. Prerequisites: Admission into the PhD in Nursing Program or permission of instructor.

**NURSE 5617** Application of Evidence-based Practice II
This course is designed to provide an analytic and systematic approach to evaluate evidence-based research used in clinical practice. The course builds on methods of evidence-based practice, theoretical foundations, ethical principles, cultural considerations, and statistical analysis. The course enables the student to develop an evidence-based approach to solving a critical clinical question through an integrative literature review. The student will analyze evidence-based practice guidelines and research translation, to develop an Evidence-Based Practice (EBP) project proposal. The student will design and implement the EBP improvement plan incorporating the ethical principles of Human Subject Review. Critical analyses of methods and design are incorporated into the project proposal. Technology and information systems provide support to the EBP based improvement plan. Prerequisite: N5613.

**NURSE 5620** Advanced Practice V - DNP Clinical
This course is designed to increase the clinical expertise of the student by fostering the development of a specific area of focus. It allows the student to investigate specific procedures, skills, or clinical knowledge that will be later utilized in the DNP practicum course. The course is designed to be self-directed allowing the student to focus on her/his own specific clinical interests and/or area of expertise. Prerequisites: All other DNP coursework except NURSE 5624

**NURSE 5622** Statistics II
This graduate statistics on-line course is designed to provide a conceptual understanding of the statistical procedures associated with: advanced multiple regression; moderators and mediators in multiple regression; path analysis; logistic regression; factor analysis; MANCOVA; MANOVA; cluster analysis; and canonical correlation. Prerequisites: NURSE 5612

**NURSE 5622** Statistics II
This graduate statistics on-line course is designed to provide a conceptual understanding of the statistical procedures associated with: advanced multiple regression; moderators and mediators in multiple regression; path analysis; logistic regression; factor analysis; MANCOVA; MANOVA; cluster analysis; and canonical correlation. Prerequisites: NURSE 5612
NURSE 5624 Advanced Practice VI-DNP Capstone
This course is designed to synthesize all previous coursework through the implementation and evaluation of a "tangible and deliverable academic product that is derived from the practice immersion experience" (DNP essentials, p.20). Individual student work may take a variety of forms, but will include the elements of evidence evaluation and utilization, systems analysis, and dissemination of best practice information. Prerequisite: NURSE 5620

NURSE 5630 Health Care Systems
This course is a guided, in-depth exploration, analysis and evaluation of selected health care systems literature. Other nursing literature will be reviewed as appropriate. Prerequisites: Admission into PhD in Nursing program or permission of instructor. Offered: Every Summer

NURSE 5630 Health Care Systems
This course is a guided, in-depth exploration, analysis and evaluation of selected health care systems literature. Other nursing literature will be reviewed as appropriate. Prerequisites: Admission into PhD in Nursing program or permission of instructor. Offered: Every Summer

NURSE 5631 State of the Science
This course is a guided in-depth exploration of literature on a selected focus area. Appropriate contextual system literature will be reviewed as appropriate. Scholarly writing for a variety of contexts will be presented. Prerequisites: Admission into a doctoral program and completion of a doctoral level theory course or permission of instructor.

NURSE 5631 State of the Science
This course is a guided in-depth exploration of literature on a selected focus area. Appropriate contextual system literature will be reviewed as appropriate. Scholarly writing for a variety of contexts will be presented. Prerequisites: Admission into a doctoral program and completion of a doctoral level theory course or permission of instructor.

NURSE 5631 State of the Science
This course is a guided in-depth exploration of literature on a selected focus area. Appropriate contextual system literature will be reviewed as appropriate. Scholarly writing for a variety of contexts will be presented. Prerequisites: Admission into a doctoral program and completion of a doctoral level theory course or permission of instructor.

NURSE 5632 Health Restoration & Support
This course is a guided, in-depth exploration, analysis and evaluation of selected health restoration & support literature. Other nursing literature will be reviewed as appropriate. Prerequisites: Admission into PhD in Nursing program or permission of instructor Offered: Every Fall

NURSE 5632 Health Restoration & Support
This course is a guided, in-depth exploration, analysis and evaluation of selected health restoration & support literature. Other nursing literature will be reviewed as appropriate. Prerequisites: Admission into PhD in Nursing program or permission of instructor Offered: Every Fall

NURSE 5662 Psychometrics
This course focuses on application of psychometric theories and practices related to instrumentation in nursing research. The basic methodologies and techniques for constructing, testing, and evaluating instruments will be discussed and applied by students. Content will focus on theoretical foundations of measurement, item construction, instrument design, item analysis, validity and reliability assessment. Criteria for evaluating existing instruments will also be discussed. Prerequisites: Permission of the instructor.

NURSE 5662 Psychometrics
This course focuses on application of psychometric theories and practices related to instrumentation in nursing research. The basic methodologies and techniques for constructing, testing, and evaluating instruments will be discussed and applied by students. Content will focus on theoretical foundations of measurement, item construction, instrument design, item analysis, validity and reliability assessment. Criteria for evaluating existing instruments will also be discussed. Prerequisites: Permission of the instructor.

NURSE 5664 Concepts & Approaches of Epidemiology & Statistics in Research
This course introduces principles, concepts, and application of epidemiological and statistical methods in research. The course will cover epidemiological principles and concepts, measurement of the occurrence of disease and disease association, types of study designs, and interpretation and evaluation of epidemiologic research. Students will have hands on experience by creating data variables using the Statistical Package for the Social Science (SPSS). Students will develop skills to analyze research data using appropriate statistical methods to calculate the measurements of disease association. This course will help students to evaluate health care studies with respect to study design, statistical analysis, interpretation and evidences of association, During
this course students will develop an epidemiologic study proposal using appropriate statistical methods. Prerequisites: Introduction to Statistics or prior approval from course instructor.

NURSE 5664 Concepts & Approaches of Epidemiology & Statistics in Research
This course introduces principles, concepts, and application of epidemiological and statistical methods in research. The course will cover epidemiological principles and concepts, measurement of the occurrence of disease and disease association, types of study designs, and interpretation and evaluation of epidemiologic research. Students will have hands on experience by creating data variables using the Statistical Package for the Social Science (SPSS). Students will develop skills to analyze research data using appropriate statistical methods to calculate the measurements of disease association. This course will help students to evaluate health care studies with respect to study design, statistical analysis, interpretation and evidences of association. During this course students will develop an epidemiologic study proposal using appropriate statistical methods. Prerequisites: Introduction to Statistics or prior approval from course instructor.

NURSE 5666 Designing Nursing Research
This doctoral level course directs the student to develop research writing skills necessary for developing their dissertation and future program of research. Critical analyses of methodologies and design are accomplished. the strengths and weakness of various research designs (non-experimental, quasi-experimental, experimental and randomized clinical trial) are evaluated via in-depth discussions. Prerequisites: NURSE 5610, 5612, 5622, 5662, 5668, 5670.

NURSE 5668 Quantitative Research
Quantitative research methods used to build nursing's body of knowledge are explored. Experimental, quasi-experimental, and correlational designs and clinical trials are analyzed. Emphasis is placed on design, data generation, analysis, and dissemination of findings. Issues pertaining to the use of quantitative methods will also be explored. Prerequisites: PSYCH 5516 (or equivalent) NURSE 5610, or permission of instructor.

NURSE 5668 Quantitative Research
Quantitative research methods used to build nursing's body of knowledge are explored. Experimental, quasi-experimental, and correlational designs and clinical trials are analyzed. Emphasis is placed on design, data generation, analysis, and dissemination of findings. Issues pertaining to the use of quantitative methods will also be explored. Prerequisites: PSYCH 5516 (or equivalent) NURSE 5610, or permission of instructor.

NURSE 5670 Qualitative Research Methods
Qualitative research methods used to build nursing's body of knowledge are explored in this seminar course. Emphasis is placed on design, data generation and analysis, and dissemination of findings. Issues regarding qualitative research are identified and analyzed. Prerequisite: Admission to the Doctor of Philosophy in Nursing program or permission of instructor.

NURSE 5670 Qualitative Research Methods
Qualitative research methods used to build nursing's body of knowledge are explored in this seminar course. Emphasis is placed on design, data generation and analysis, and dissemination of findings. Issues regarding qualitative research are identified and analyzed. Prerequisite: Admission to the Doctor of Philosophy in Nursing program or permission of instructor.

NURSE 5671 Advanced Qualitative Research and Mixed Methods
This graduate level course is designed for students who have had an introduction to qualitative research methods and want to pursue more in-depth study of these methodologies, with emphasis on a chosen methodology that they hope to use in their own research. Appropriateness of methodological choice in relation to research question, application of theory, rhetorical style and author presence, and criteria for judging quality will be among the topics explored for various methodologies and data generation (collection) and data analysis skills will be practiced. the course will also acquaint students with the growing literature on mixed methods research. Prerequisites: Admission to the Doctor of Philosophy in Nursing program, an introductory class on qualitative research, or permission of instructor. It is assumed that students have library and internet research skills such as Medline CINAHL and have at least a partially developed topic of research.

NURSE 5697A Special Topics Nursing Elective
This course consists of the guided study of special topics in areas of nursing theory and/or research. Prerequisite: Admission into PhD in Nursing Program Offered: On Demand

NURSE 5697A Special Topics Nursing Elective
This course consists of the guided study of special topics in areas of nursing theory and/or research. Prerequisite: Admission into PhD in Nursing Program Offered: On Demand

NURSE 5697APP Special Topics Nursing
NURSE 5697AR Special Topics Nursing

NURSE 5697B Special Topics Nursing-Equivalent
This course will cover guided study of course equivalent topics in areas of nursing theory and/or research. Prerequisite: Admission into PhD in Nursing program Offered: On Demand

NURSE 5697B Special Topics Nursing-Equivalent
This course will cover guided study of course equivalent topics in areas of nursing theory and/or research. Prerequisite: Admission into PhD in Nursing program Offered: On Demand

NURSE 5697CR Special Topics
This course will cover guided study of course equivalent topics in areas of nursing theory and/or research. Prerequisite: Admission into PhD in Nursing program Offered: On Demand

NURSE 5697DP Special Topics Nursing

NURSE 5697RD Special Topics Nursing

NURSE 5699 Dissertation Research
Individual directed research leading to preparation and completion of doctoral dissertation.

NURSE 5699 Dissertation Research
Individual directed research leading to preparation and completion of doctoral dissertation.

NURSE 5899 Required Graduate Enrollment

NURSE 5899 Required Graduate Enrollment

School of Pharmacy
School of Pharmacy Graduate Courses

Pharmacy (PHARM)
PHARM 501 Introduction To Research In The Pharmaceutical Sciences

PHARM 506 General Pharmaceutics

PHARM 508 Introduction To Medicinal Chemistry

PHARM 5507 Basic Pharmacology
Basic pharmacological concepts and important classes of pharmacologic agents. Prerequisites: Human anatomy, physiology and biochemistry. Fall, each year.

PHARM 5507 Basic Pharmacology
Basic pharmacological concepts and important classes of pharmacologic agents. Prerequisites: Human anatomy, physiology and biochemistry. Fall, each year.

PHARM 5509 Basic Toxicology
Principles of general toxicology and toxicology of industrial and household chemicals, agricultural agents, social poisons, and selected therapeutic agents. Prerequisites: Human Anatomy, Physiology, Biochemistry and PHARM 507 or PHARM 519. Offered: Fall, each year.
PHARM 5509 Basic Toxicology
Principles of general toxicology and toxicology of industrial and household chemicals, agricultural agents, social poisons, and selected therapeutic agents. Prerequisites: Human Anatomy, Physiology, Biochemistry and PHARM 507 or PHARM 519. Offered: Fall, each year.

PHARM 5515 Drug Absorption, Distribution, Metabolism And Excretion
A course dealing with the absorption, physiologic distribution, metabolism and excretion of drugs and other organic compounds and factors which influence these events. Three hours lecture a week. Fall, odd year.

PHARM 5519 Pharmacology I
Students will study basic concepts of drug metabolism, pharmacology of drug action, drug-mediated toxicity, drugs affecting different organs/systems, and the effect of drugs in clinical conditions. Prerequisites: Human anatomy, physiology and biochemistry or permission of instructor.

PHARM 5520 Pharmacology II
Students will study principles of chemotherapy, pharmacology of drug action, drug-mediated toxicity, drugs affecting different organs/systems, and the effect of drugs in clinical conditions. Prerequisites: Pharm 5519 or permission of instructor.

PHARM 5521 Advanced Organic Medicinal Chemistry
Chemistry, physiochemical properties, mechanism of action and structure-activity relationships of organic drug molecules. Fall, odd years.

PHARM 5523 Biopharmaceutics And Pharmacokinetics
Study of (1) the kinetics of absorption, distribution, and elimination of drugs and the relationship of kinetic parameters to dosage form, biological factors, and dosage regimen; (2) the development of various models for pharmacodynamic-pharmacokinetic correlations. Three hours lecture. Prerequisite: Must have enrolled in and received a grade of "B" or better in Phar 7303 (PK for Pharm.D. students); Math 345 (Ordinary Differential Equations) or equivalent is highly recommended. Fall, even years.

PHARM 5550 Stability Of Pharmaceuticals
The course provides instruction in the processes responsible for instability of pharmaceuticals. Course content includes, but is not limited to, instability due to light, oxygen, and metal ions; the effect of temperature on the rate of drug decomposition; the effect of dielectric constant and ionic strength on degradation; and physical and chemical instability of newer polypeptide drugs. In addition, practical strategies to prevent instability of the active compound and excipients used in pharmaceutical formulations is provided. Prerequisites: MATH Calculus (required) & Ordinary Differential Equations (recommended); Course Grade of "B".
or better in both PHARM 202 and PHARM 203; Restriction: Consent of instructor Offered: Fall semester even-numbered year.

**PHARM 5550** Stability Of Pharmaceuticals
The course provides instruction in the processes responsible for instability of pharmaceuticals. Course content includes, but is not limited to, instability due to light, oxygen, and metal ions; the effect of temperature on the rate of drug decomposition; the effect of dielectric constant and ionic strength on degradation; and physical and chemical instability of newer polypeptide drugs. In addition, practical strategies to prevent instability of the active compound and excipients used in pharmaceutical formulations is provided. Prerequisites: MATH Calculus (required) & Ordinary Differential Equations (recommended); Course Grade of ""B"" or better in both PHARM 202 and PHARM 203; Restriction: Consent of instructor Offered: Fall semester even-numbered year.

**PHARM 5555** Religion, Culture And Health
This course addresses the impact of religious beliefs on the culture practices of contemporary society, and aims at examining the relationship between these beliefs, modern sciences and health. It will be offered to all students, in Fall semesters. No prerequisites. Offered: Every Fall

**PHARM 5580A** Seminar In Pharmaceutical Sciences
Enrollment and participation required of all graduate students in the School of Pharmacy during each semester of graduate study. One hour each week. This course is graded on a credit/ no credit basis. Offered: Fall and winter.

**PHARM 5580A** Seminar In Pharmaceutical Sciences
Enrollment and participation required of all graduate students in the School of Pharmacy during each semester of graduate study. One hour each week. This course is graded on a credit/ no credit basis. Offered: Fall and winter.

**PHARM 5580C** Seminar In Pharmacology/Toxicology
Enrollment and participation required of all graduate students in the School of Pharmacy during each semester of graduate study. Credit/no credit. One hour each week. Fall & winter.

**PHARM 5588** Techniques in Biotechnology
In this graduate course, the principle theories, techniques and strategies to conduct experiments using common biotechnology/molecular biology techniques will be discussed. The course material has been designed to provide up to date information on techniques in biotechnology. Knowledge on these basic biotechnology/molecular biology techniques will be useful in diverse fields like biochemistry and pharmaceutical sciences to work with nucleic acid and proteins. Prerequisites: BS or equivalent in chemistry, biology, pharmacy or related discipline. Restrictions: Maximum 30 students allowed.

**PHARM 5590A** Special Topics Pharmacy

**PHARM 5590B** Special Topics Pharmaceutical Chemistry

**PHARM 5599A** Research And Thesis Pharmacy

**PHARM 5599A** Research And Thesis Pharmacy

**PHARM 5599B** Research And Thesis Pharmaceutical Chemistry

**PHARM 5599C** Research And Thesis Pharmacology

**PHARM 5606** Biochemical Toxicology
Recent advances in organ-specific toxicity and the mechanisms of toxicity of drugs and environmental chemicals. Prerequisite: Consent of instructor. Winter, odd years.

**PHARM 5615** Methods In Pharmacology And Toxicology
Exposure to some of the techniques employed in research in pharmacology and toxicology. One hour conference and six hours laboratory per week. Prerequisite: Permission of instructor.

**PHARM 5616** Molecular Toxicology
Study of the molecular mechanisms of toxicity with emphasis on receptor theory and quantitative structure activity relationships. Three hours lecture or discussion a week. Prerequisites: PHARM 510 and PHARM 515 or permission of instructor. Winter, even years.*

**PHARM 5625** Synthetic Medicinal Chemistry
Medicinal chemicals are considered as to their synthesis and structure-activity requirements as well as to current research and
technology in the area. Offered on demand. *

**PHARM 5630** Cytochrome P450: Drug Metabolism, Bioavailability, Interactions and Toxicity
This course is designed to provide students up-to-date scientific facts on drug metabolism, bioavailability interactions, and toxicity (DMBIT) in perspective of cytochrome P450 (CYP) and the factors that affect DMBIT. The course will also include prospects of CYP applications for various purposes in reference to drug metabolism. The course will include lectures, lab experience, and student seminar/report. Prerequisites: BS or equivalent in chemistry, biology, pharmacy, or related subjects, or approval from the course coordinator/instructor.

**PHARM 5631** Pharmaceutical Formulations I
Advanced theory and practice of Pharmaceutical formulations including classical and current research. This course will introduce the principles of biomaterial based drug delivery systems and unify knowledge from the fields of biology, materials science, and pharmaceuticals. Prerequisites: B.S in Pharmacy. Offered: Fall, odd years.*

**PHARM 5632** Novel Drug Delivery Systems
The course offers up-to-date information about drug transport mechanisms and drug absorption processes across various absorptive membranes, ie., buccal, nasal, dermal, corneal, pulmonary, and oral mucosa. The course material has been designed to provide current ideas and thinking about gene delivery, drug targeting to tumor cells and lipid and carrier mediated drug delivery. It provides unique information about cell culture models as a predictor of drug delivery as well as physical chemistry of surfaces in various microparticulates and lipid emulsion systems.

**PHARM 5633** Receptor Pharmacology And Signal Transduction
Molecular characterization of drug receptors involving quantitative description of functional studies with agonists and antagonists and binding of ligands to receptors; the molecular structure of receptors and the signaling systems that couple receptors to their pharmacologic functions. Prerequisites: Biochemistry 561/562 and/or Pharmacology 519/520. Offered: Every other Winter Other: When we have enough students willing to take course on demand.

**PHARM 5634** Protein and Nucleic Acid Drug Delivery
In the graduate course, the principle theories, techniques and strategies in developing protein and nucleic acid drugs will be discussed. The course material has been designed to provide up to date information in protein and nuclear acid drug delivery. It offers unique information on how to combine knowledge of chemistry, molecular biology and pharmaceutical sciences to achieve successful therapeutic application of protein and nucleic acid. Prerequisite: B.S. in Pharmacy/ Chemistry/ Biology/ Bioengineering/ Pharmacology

**PHARM 5640** Biochemical and Molecular Toxicology
This course will provide students with a comprehensive mechanistic understanding of various molecular events that lead to and/or are associated with chemically/environmentally induced degenerative of proliferative diseases. The course will include lectures student presentations of recent advances in biochemical and molecular toxicology and student report on a topic of interest as it pertains to the subject being taught. The title of the report has to be approved by the course coordinator. Prerequisites: BS or equivalent in biochemistry, molecular biology, chemistry, biology, or approval from the course coordinator.

**PHARM 5645** Cancer Biotechnology I
This course is designed to provide a basic understanding of tumor progression, molecular events and signaling mechanisms underlying tumor formation. Epidemiological approaches, etiology, and current methods of detection and diagnosis of cancer will be discussed. Current pharmacological management strategies of cancer and future therapeutic interventions will also be reviewed. Prerequisite: BIOLOGY 202 or equivalent. Fall, even years.

**PHARM 5646** Cancer Biotechnology
Cancer Biotechnology II will focus on gene regulation of cancer cells with specific pharmaceutical agents. The course will target chemotherapeutic agents and examine current technology in gene therapy. Antisense and ribozyme DNA will also be discussed. Prerequisites: PHARM 645 and Cancer Biotechnology I. Winter, odd years.

**PHARM 5690B** Special Topics Pharmaceutical Chemistry

**PHARM 5690BB** Special Topics Toxicology

**PHARM 5690C** Special Topics Pharmacology

**PHARM 5699** Research And Dissertation
Available for Doctorate program with the following emphasis areas: (A) Pharmacy, (B) Pharmaceutical Chemistry, (C) Pharmacology, (AA) Pharmacy Administration, and (BB) Toxicology. Fall, winter and summer.
PHARM 5699A Research And Dissertation - Pharmacy

PHARM 5699B Research And Dissertation Pharmaceutical Chemistry

PHARM 5699BB Research And Dissertation Toxicology

PHARM 5699C Research And Dissertation Pharmacology

PHARM 5699C Research And Dissertation Pharmacology

PHARM 5899 Required Graduate Enrollment
Professional Pharmacy (PHARM)

PHARM 100PS Special Topics Umkc

PHARM 150 Introduction To Pharmacy

PHARM 160 Metrology

PHARM 200 Fundamentals Of Pharmaceutical Science
The physical, chemical, mathematical laws, principles, and techniques employed in the pharmaceutical sciences. Two hours lecture per week. Prerequisites: Organic Chemistry I, Pharmacy Calculations and Preparations.

PHARM 200PS Special Topics Umkc

PHARM 211 Management Accounting

PHARM 215 Microbiology Student Pharmacy

PHARM 218N Pharmacology Therapeutics

PHARM 220 Principles Of Pharmaceutical Business
A study of the use of financial and cost accounting data in the decision-making process in the pharmaceutical business. Introduction to the terminology and use of financial information in current developments in pharmaceutical business.

PHARM 221 Pharmacy And Health Care Systems
Study of the application of various concepts from social sciences to the consumer as a patient. One hour lecture and one laboratory/discussion period a week. Winter.*

PHARM 225 Pharmacy Organic Chemistry II

PHARM 230 General Pharmacy I

PHARM 232 General Pharmacy II

PHARM 235 Anatomy

PHARM 236 Physiology

PHARM 300PS Special Topics Umkc

PHARM 301PS Special Topics Umkc

PHARM 302PS Special Topics Umkc

PHARM 303PS Special Topics Umkc

PHARM 304PS Special Topics Umkc

PHARM 305PS Special Topics Umkc
PHARM 310PS Special Topics Umkc

PHARM 312 Medicinal Chemistry II

PHARM 320 Intermediate Pharmacy I

PHARM 322 Pharmacy Technology

PHARM 330 Bacteriology

PHARM 335 Biochemistry

PHARM 335A Biochemistry I

PHARM 338 Pharmacognosy

PHARM 340 Pathology

PHARM 350 Public Health

PHARM 360 Pharmacology I

PHARM 396 Home Health Care
Class explores topics in the home health pharmacy. Students receive an overview of home infusion services, role of pharmacist and other health professionals, durable medical equipment, oxygen and other respiratory services, high tech equipment used, home health supplies and tests, and reimbursement issues. Guest lectures and possible field trips. Hands-on training in compounding of antibiotics, nutritional, chemotherapy drugs, stability of drugs. Prerequisite: Pharmacy 361.

PHARM 400PS Special Topics Umkc

PHARM 401 Pharmacy Iv

PHARM 401PS Special Topics Umkc

PHARM 402PS Special Topics Umkc

PHARM 410PS Special Topics Umkc

PHARM 414A Dispensing I

PHARM 415 Drug Information

PHARM 417 Manufacturing Pharmacy
Study of pharmaceutical formulations and processing with emphasis on dermatologic and cosmetic preparations, their use in
common skin disorders, penetration of the skin, skin toxicity and sensitivity. Techniques of analysis of experimental data are examined and a student-designed experiment is performed. Two hours lecture and three hours laboratory per week. Prerequisite: PHARM 205. Elective. Winter.*

PHARM 429 Pharmacy Management

PHARM 437 Designing Dosage Regimens
Applications of basic principles of pharmaceutics to the design of patient-specific drug dosage regimens and to selected problems in the therapeutic use of drugs. Lecture. Prerequisite: PHARM 303. Elective.

PHARM 449A Seminar In Pharmacy

PHARM 456P Clinical Practice II
Clinical Practice II is an introductory clerkship experience designed to prepare the Doctor of Pharmacy Candidate to organize information from the patient records and other sources of information and to present the patient case as it relates to rational pharmacotherapy. The experience consists of four rotations in clinical settings. Students will be expected to utilize the medical record, patient interview, and discussions with instructors and other health care providers to conceptualize and present assigned patient cases. In this clinical clerkship candidates will be under the direct supervision of a Senior Partner with activities determined by a member of the faculty of their designee at the assigned site. Students are required to complete four clinical practice rotations during the semester. Students are assigned to a clerkship site for the equivalent of one day per week and may be expected to attend team oriented patient care activities (i.e., rounds, conferences) as time permits. Prerequisites: Therapeutics; Pharmacokinetics; Drug Information. Candidates must be certified as a BCLS provider and be current on all immunizations prior to the beginning of the course. Prerequisites: PHAR 315, 420, 455P and MO internship & professional liability insurance. Offered: Fall/Winter

PHARM 458 B.S. Clinical Clerkship I
The candidate will spend one month in an inpatient hospital setting of one of the affiliated hospitals. Emphasis of study will be on the provision of pharmaceutical care. Candidates may take part in rounds, conferences, consultations, in-services, medication maintenance activities and presentations as directed by the supervising faculty member. The instruction is designed to assist the candidate in developing problem solving skills in the patient care environment. Credit/No Credit. Prerequisites: All didactic coursework leading to the B.S. degree in Pharmacy, Top 200 Drugs, current BCLS certification, current TB test, and Hepatitis B vaccination. Offered: Winter.

PHARM 459 B.S. Clinical Clerkship II
B.S. Clinical Clerkship II is a continuation of B.S. Clinical Clerkship I. Although the course description is the same, the candidate will be expected to accept greater challenges relating to patient care at the site. Credit/No Credit. Prerequisite: B.S. Clinical Clerkship I. Offered: Winter.

PHARM 460 Community Pharmacy Externship
The candidate will spend one month assigned to a faculty member whose practice is based in a community setting. Emphasis of study will be on the organizational, technical, and administrative aspects of providing pharmaceutical care to the patients in the community. Candidates will take part in all aspects of pharmacy practice within the facility (i.e., distribution, counseling, DUE, provision of drug information), as well as, operations management and practice development. Credit/No Credit. Prerequisite: All didactic coursework leading to the B.S. degree in Pharmacy, Top 200 Drugs, current BCLS certification, current TB test, and Hepatitis B vaccination. Offered: Winter.

PHARM 462 Hospital Externship
The candidates will spend one month assigned to a faculty member whose practice is based in a hospital pharmacy. Emphasis will be on the organizational, technical, and administrative aspects of providing pharmaceutical care to the hospitalized patient. Candidates will take part in activities to enhance their understanding of pharmacy practice within the facility (i.e., distribution, committee activities, quality assurance, provision of drug information and management). Credit/No Credit. Offered: Winter semester only.

PHARM 470 Therapeutics In The Elderly
Therapeutics in the Elderly is the study and application of the principles of clinical therapeutics in an aged population. The role of the pharmacist and drug therapy monitoring is emphasized for disease processes commonly encountered by the elderly patient. One 2 hour lecture/week. Elective.

PHARM 475 Introduction To Managed Care
Introduction to Managed Care will provide the student with information about managed health care systems, how it impacts the practice of pharmacy and the role pharmaceutical care plays within that system. The history and evolution of managed care, plus
an understanding of key terminology will serve as the starting point to the program. The primary focal points will be formulary management, benefit design, electronic claim processing, utilization review and management, case management, industry quality standards (HEDIS & NCQA) and disease state management. There will be a required text and the general format will be lecture-based. There will also be significant interactive discussion, group activities and field trips/site visits. Prerequisite: Must be in semester 7 of Pharm.D. curriculum and PHARM 361, 362, and 405.

PHARM 482 Advanced Therapeutics
Advanced Therapeutics is designed to facilitate the integration of pathophysiology and basic drug knowledge in the treatment of common disease states. The course utilizes lecture/case discussions to establish the background students need to be able to identify and solve drug related problems. Each course module incorporates the use of drugs in special populations. Four hours lecture/two hours discussion per week. Prerequisite: Therapeutics or consent of instructor.

PHARM 488P Clinical Pharmacokinetics

PHARM 489EA Special Topics In Pharmacy

PHARM 490A Modified Pharmacy Externship

PHARM 490B Pharmacy Practice III--Location B

PHARM 490C Pharmacy Practice III--Location C

PHARM 498 Introduction To Research In Pharmacology
This course is to provide opportunity for the B.S.P.S. students to learn the basic research laboratory settings and skills and to gain the hands-on experience in common and advanced research approaches in pharmacology. Students will be introduced to selected examples of pharmacological research, including formulation of a hypothesis, performance of an experiment, analysis of experimental data, and presentation of results in forms of publications and conferences. A variety of state-of-the-art technologies that are being utilized in the Division of Pharmacology will be taught to the students as example procedures in Pharmacology research. Prerequisite: Pharmacology I Offered: Fall

PHARM 499 Research Design Methods
This course will enable students to acquire new problem solving skills for biological situations. It will encourage participants to create & critique methodologically appropriate research designs, understand their choice and application in the life sciences, and interpret outcomes as a means to answer basic biological questions. It is intended to provide students with sufficient research maturity necessary to read life science literature and to actively seek out and explore novel approaches for new experimental designs and problems when they arise. Prerequisites: None Offered: Winter Restrictions: Phar AU 51

PHARM 505 Advanced Drug Distribution Systems
Description of economic, social, psychological, legal, medical and professional factors influencing the contemporary practice of pharmacy. Offered: On demand.

PHARM 538 Advanced Pharmacy Administration
Investigation and analysis of selected areas of pharmacy administration for group discussion and written report; case problems, review of current literature, and an original research project. Prerequisite: Consent of the instructor. Offered: On demand.

PHARM 580B Seminar In Pharmacy Administration
Enrollment and participation required of all graduate students in the School of Pharmacy during each semester of graduate study. One hour each week. Offered: Fall and winter.

PHARM 590AA Special Topics Pharmacy Administration

PHARM 590AB Special Topics Pharmacy

PHARM 590AC Special Topics Pharmacy
PHARM 590D Special Topics Pharmacology

PHARM 599AA Research And Thesis Pharmacy Administration

PHARM 690AA Special Topics Pharmacy Administration

PHARM 699AA Research And Dissertation Pharmacy Administration

PHARM 7100A Introductory Topics In Pharmacy I
This course in one in a four semester series of courses that includes presentations and discussions on the profession of pharmacy including: the role and responsibilities of the pharmacist, educational requirements to obtain the degree, career opportunities, student life, legal and ethical issues, current issues in healthcare effecting pharmacy practice, and study skills development. Course meets for 2 hours four times a semester. Credit/no credit. Prerequisite: You must be admitted to the School of Pharmacy and be a Provisional Pharmacy Major to take this course.

PHARM 7100B Introductory Topics In Pharmacy II
This course is the continuation of the four semester course series. Course meets for 2 hours four times a semester. Continuation of Pharmacy 7100 A. Credit/ No Credit. Prerequisite: Pharmacy 7100A

PHARM 7100C Introductory Topics in Pharmacy III
This course is a continuation of the four semester course series. Course meets for 2 hours four times a semester. Continuation of Pharmacy 7100B. Credit/No Credit. Prerequisite: Pharm 7100B

PHARM 7100D Introductory Topics Pharmacy IV
This course is a continuation of the four semester course series. Course meets for 2 hours four times a semester. Continuation of Pharm 7100C. Credit/No Credit. Prerequisite: Pharm 7100C

PHARM 7101 Professional Skills I: The Profession of Pharmacy
This course introduces students to the profession of pharmacy and professional responsibilities and roles of a pharmacist. Students will complete and present a group project solving a community-based health issue as part of this course. This is the first of three courses with an integrated curriculum focused on professional skills development. Prerequisites: Admission to the Pharm. D program. Restrictions: AU 52 Offered: Fall Two 1-hour class sessions are held per week.

PHARM 7110 Professional Skills II: Pharmacy Calculations
This course provides instruction in performing the necessary calculations involved in the practice of pharmacy and the dispensing, manufacturing and preparation of dosage forms. Topics covered include but are not limited to: fundamentals of pharmaceutical calculations (numbers, numerals, exponents, ratios, percentages, proportions and fractions); International System of Units; pharmaceutical measurements; interpretations of medication orders and prescriptions; density, specific gravity and specific volume; patient specific parameters involved in dosing (surface area, weight and age); isotonicity and buffer solutions; milliequivalents, millimoles and milliosmoles; dilution, concentration and alligation; and, reducing and enlarging formulas. The ability to apply principles and formulas to solve pharmaceutically relevant problems related to the above listed topics is an outcome for this course. Students must have an understanding of mathematical principles to include algebra and calculus. Prerequisite:MATH 210 Offered: Winter Semester. Restrictions: AU 51&52

PHARM 7125 Medical Terminology
This course will provide the necessary information towards proficiency in reading and understanding the meaning of common medical terminology. This ability will provide a foundation for student learning in courses that rely on medical terminology to explain physiologic and clinical processes. Prerequisite: Admission to the Pharm D program. Offered: Fall Restrictions: AU 52

PHARM 7151 Introduction To Pharmacy Law
This course will provide an introduction to the federal and state laws that pertain to the practice of pharmacy. One hour of lecture per week. Offered: Fall Restrictions: AU 52

PHARM 7199 Pharmacy Grand Rounds
The School of Pharmacy offers Grand Rounds seminars for the student body regarding timely and important topics and issues facing the profession of the School. Offered Fall and Spring Semester.

PHARM 7202 Pharmaceutics I
Physicochemical properties of drug systems with consideration of incompatibilities and stabilization of pharmaceutical dosage forms, and physicochemical properties affecting drug action, degradation and bio availability. Three hours lecture and three hours laboratory a week. Prerequisite: PHARM 110 & PHARM104 Offered: Fall Restrictions: AU 51 & 52 (Second Year Professional
PHARM 7203 Pharmaceutics II
Discussion of pharmaceutical processes, equipment and material used in drug delivery systems and the preparation and evaluation of solid delivery systems and parenteral products. Three hours lecture and three hours laboratory a week. Prerequisite: PHARM 202. Restrictions: AU 51 & 52 (Second Year Professional Standing)

PHARM 7203L Pharmaceutics II Lab
In this lab course students will perform hands on pharmaceutical processes, use manufacturing equipment, and prepare formulations in which selected dosage forms are manufactured and evaluated. This is a required lab for BS in Pharmaceutical Science students and a professional elective option for Pharm.D. students. Prerequisite: PHARM 202 Co-requisite: PHARM 203 (AU 51 students only)

PHARM 7233 U.S. Health Care System and Marketing
U.S. Health Care System and Marketing is a required course for the doctor of Pharmacy degree program at The University of Missouri -Kansas City School of Pharmacy. It consists of two modules: U.S. Health Care System and Medication Safety (Module I), and Health Care Marketing (Module 2). The goals of the course are to (1) understand U.S. health care system at the macro level, (2) discuss medication errors and management within U.S. health care system, and (3) learn about marketing process for healthcare products and services. This course provides the context and builds the knowledge base for future required courses such as Pharmacy Practice Management.

PHARM 7244 Introduction to Drugs of Abuse
As a health professional in training, it is important to know the mental and behavioral effects of abusing both prescription and illicit substances. This knowledge will help the health professional to be more understanding of their patients who may be suffering with a substance abuse problem. Introduction to Drugs of Abuse will focus on both the physical and psychological effects of substances such as hallucinogens, amphetamines, alcohol, and nicotine among others. The course will also be discussing important topics such as behavioral modification, the controversies of treatment, and the role of the pharmacist in the treatment of substance abuse. A substantial focus will also be placed on patient experiences and the psycho-social aspects of substance abuse. Prerequisites: Completion of Anatomy LSANA118/118L concurrent enrollment in or completion of Pharmacy Physiology LSPHYS 339 & 400Offered: Anatomy is required for admission into the UMKC School of Pharmacy and Pharmacy Physiology I and II are offered in the first two semesters of the first year within the School of Pharmacy Curriculum.

PHARM 7245 Top 200 I
This course requires the student to commit basic information about the Top 200 most prescribed drugs to memory. Prerequisite: Successful completion of Pharm D courses through semester 4. Offered: Fall and Winter Restrictions: AU 52 Level A

PHARM 7266 Medical & Medication Error Evaluation & Management
A course designed to discuss the current body of evidence with respect to medical quality, medication errors, and strategies used to improve quality & minimize error rates. At the completion of the course, the student should be able to (1) review and synthesize evidence within the literature; (2) describe te policy framework designed to improve health care quality; (3) describe characteristics and factors that enable & encourage providers to improve the quality of care; (4) describe common causes of medication errors; (5) differentiate strategies to prevent errors; (6) correlate medication errors and specific disease states. Prerequisite: None Offered: Winter Restrictions: AU 52 Level B

PHARM 7275 The Pharmacists' Role in Global Health
Objectives for this course include; describe key public health concepts related to global health, including: demographic and epidemiological transitions, measures of health status, and the burden of disease; describe how globalization has changed the patterns of the spread of disease and the methods needed to control disease; discuss the multi-directional links between health and social and economic factors; discuss how social and cultural factors can affect a society's vulnerability to morbidity and mortality and its approaches to prevention and control; identify health conditions that have a major impact on morbidity and mortality and key biological concepts needed to understand their public health importance; identify critical issues in the organization and delivery of public health and health care services and methods to address these issues; discuss the determinants of health and risk factors for conditions of major importance to global health; discuss the burden of disease in various regions of the world and the variations in incidence and prevalence both within and across countries; discuss the potential for science and technology to contribute to improvement in health; identify key organizations and institutions, their roles in global health, and the manner in which they can cooperate to address key global health issues; apply principles of cost-effectiveness, benefits and harms, and sustainability of a new intervention designed to improve global health; and apply understandings of the impact of culture on health to address issues of cultural diversity. Prerequisite: Professional Skills Development I. Restrictions: Pharm. D. Student any level. Offered: Spring

PHARM 7277 Zoonotic Illnesses
This course is designed to increase student knowledge and interest in infectious diseases by presenting various zoonotic illnesses.
It will include background information on the clinical “workup” of an infectious disease, an introduction to antibiotics, monitoring of the infectious process, the evolution of the disease, and reporting of infectious diseases to the local health department. It will also expose students to particular disease states that they may see in rural Missouri (e.g., tick bites, diseases from farm animals, etc). It is offered to PharmD students. Prerequisite: Microbiology

**PHARM 7279 Introductory Pharmacy Practice Experience: Aseptic Technique and Sterile Product Preparation**  
This Introductory Pharmacy Practice Experience (IPPE) gives students the proper steps of sterile product preparation utilizing aseptic technique skills. This experience involves video instruction, small group live demonstration and instruction, opportunities to practice technique, and assessment by preparation of a parenteral admixture. The knowledge and skills obtained in this IPPE prepare students for the next level of curricular pharmacy practice experiences. Prerequisites: Successful completion of all coursework through semester two, OSHA Blood Borne Pathogen Safety Training.

**PHARM 7303 Pharmacokinetics And Biopharmaceutics**  
Study of pharmacokinetic models and equations; the concepts of the rate processes associated with, and the physical and physiological factors affecting absorption, distribution, and elimination of dosage forms. The concepts of bioavailability will be presented so as to prepare the student to evaluate bioavailability data. Three hours lecture and one two-hour discussion period per week. Winter. Restrictions: AU 51 & 52 Level A

**PHARM 7307 Advanced Pathophysiology**  
Advanced pathophysiology is the study of the alterations of normal physiological functioning in cellular, tissue, organ, and organ systems. These alterations form the basis for understanding a variety of pathophysiological conditions and the manifestations and impact of abnormal physiological functioning on patients across the life span. Advanced pathophysiology deals with both generalized disease processes and major organ system dysfunction. Students will have the opportunity to identify clinical signs and symptoms for various disease states, associate those symptoms with pathophysiological changes, and discuss potential pharmacologic and non-pharmacologic treatment options. Prerequisites: LSAnat 119/119L, LSBioch 366, LSPhys 400. Co-requisite: Pharmacy 7361. Semester Offered: Fall

**PHARM 7310 Academic Service Learning I**  
Academic Service Learning is a professional elective course where students are assigned to either Jackson County Free Health Clinic in Kansas City or the MedZou program in Columbia. A minimum of 30 contact hours must be completed during the assigned semester. Health education will be the primary focus. Prerequisites: Successful completion of Pharm.D courses through Semester 2 and completion of required documentation. Semester Offered: Fall and Spring.

**PHARM 7310 Academic Service Learning I**  
Academic Service Learning is a professional elective course where students are assigned to either Jackson County Free Health Clinic in Kansas City or the MedZou program in Columbia. A minimum of 30 contact hours must be completed during the assigned semester. Health education will be the primary focus. Prerequisites: Successful completion of Pharm.D courses through Semester 2 and completion of required documentation. Semester Offered: Fall and Spring.

**PHARM 7311 Pharmacy in the 21st Century Technology**  
This course allows students to develop the skills to evaluate and use Health Care Information Technology (HCIT) in contemporary pharmacy practice. The elective course is offered in the winter semester only. Prerequisite: Currently enrolled in the Doctor of Pharmacy program in year 3 or higher. Preference given to 4th year students.

**PHARM 7313 Career Planning**  
This course enables students to engage in the study of career opportunities in the areas of industry, hospital/clinic practice, retail and managed care settings. Pharmacy opportunities are explored through lecture and discussion, guest speakers in the various areas and student exploration with business contacts and research. Topics include understanding career opportunities, achieving one's professional goals, compensation packages and negotiations, and designing a path to accomplish career objectives. Offered: Fall Restrictions: AU 52 Level A&B

**PHARM 7316 Introduction to Pharmaceutical Policy Analysis**  
This course addresses multiple key influential pharmaceutical policy areas shaping pharmacy practice, and will teach critical thinking skills required to measure both federal and state level policy impact in patient safety and access to medications. It is limited to students enrolled in the School of Pharmacy and is offered in winter semesters only. Prerequisites: Pharmacy 7151, 7233, 7465, and 7325.

**PHARM 7317 Drug Induced Diseases**  
Drug-induced disease is an unintended effect if a drug that results in mortality or morbidity with symptoms sufficient to prompt a patient to seek medical attention and/or require hospitalization. This course will aid students in the identification, management, and prevention of drug-induced diseases. Prerequisites: Students must have successfully completed Pharmacology I and
Advanced Pathophysiology.

PHARM 7325 Professional Skills IV: Professional and Patient Communication
The goal of Pharmacy 7325 is to develop verbal and written professional communication skills. Pharmacy 7325 lays the groundwork for skills students will use later in the curriculum and when they enter practice. Students will learn business, technical and patient-oriented writing skills and how to design and deliver a formal presentation. The class is a mix of didactic instruction and individual and small group activities.

PHARM 7326 Evidence Based Medicine
Pharmacists, if they are to assume the role of "medication expert" must have the ability to evaluate the medical literature and use the results of this evaluation to make evidence-based patient care decisions. To do this, pharmacists will need to assimilate existing information, create and assimilate information or create new information. The disciplined approach that evidence-based practice requires will assure the highest quality of problem solving and decision making possible by the pharmacist for patients, consumers and other healthcare providers. This course provides students with tools to evaluate the literature in a critical manner. The student will learn how to integrate information from multiple sources to make more complex healthcare-related decisions. A key aspect of the course is to provide confidence and ability in assimilating existing information into recommendations/decisions. Less emphasis will be placed on the creating of new information. Throughout the course, the student will observe and participate in applying these tools for evidence-based practice to real pharmacy issues in order to make individual patient care and population-based decisions. Prerequisite: PHARM 7420 and PHARM 7325 Co-requisite: PHARM 7485P

PHARM 7334 Pharmacy Based Immunization Delivery
Pharmacy-Based Immunization Delivery is an interactive training program that teaches pharmacists and student pharmacists the skills necessary to become a primary source for vaccine information and administration. The program teaches the basics of immunology and focuses on practice implementation, administration and legal/regulatory issues. Prerequisites: Pharm.D. courses completed through 5th semester.

PHARM 7341 Medicinal Chemistry I
This course is the study of medicinally active substances, both natural and synthetic, which describes their chemical properties, their mode of action, their structure-activity relationships and their metabolic rate. Starting with their origin, it is shown how drugs in a series are developed by chemical modification, quantitative structure activity relationships and receptor theory. The chemical properties of a drug are described and explained. The mode of action of the drug is explained on a biochemical basis whenever possible. Once a drug has had its medicinal effect, it is excreted or metabolized. Reasons for excretion or metabolism are explained. Three hours lecture per week. Prerequisite: CHEM 322R. Corequisite LS-BIOC 365G. Offered: Fall.

PHARM 7344 Medicinal Chemistry II
This course is a continuation of PHARM 341. It will focus on classifying drugs based on chemical and/or pharmacological properties. The pharmacophore concept and structure-activity relationships will be emphasized. We will also examine the influence of organic functional groups on physicochemical properties of drugs and eventually their pharmacological activities. Syntheses and metabolism of drugs will also be discussed. The metabolism will focus on organic functional group transformations. Three hours lecture per week. Prerequisite(s): PHARM 341 & LS-BIOC 365G. Corequisite: LS-BIOC 366G. Offered: Winter.

PHARM 7345 Top 200 II
Same as Top 200 I, however additional information must be committed to memory building on what was learned in the prerequisite course. Prerequisite: Successful Completion of Top 200 I Offered: Fall and Winter Restrictions: AU 52 Level B

PHARM 7353 Investigative Toxicology
The science of investigative toxicology is an emerging science that plays a central role in forensic toxicology and pathology regarding conditions of and for exposure of many different kinds of environmental, biological, chemical, or physical agents. Investigative toxicology may include criminal or civil legal matters. The duties of an investigative toxicologist include the qualitative and quantitative analysis of drugs or poisons in biological systems and other physical evidence collected at the scene of the investigation. This also includes the interpretation of the exposure scene evidence and findings in regard to the physiologic and behavioral effect of those exposed to the detected/suspected chemical(s) at time of exposure. The complete investigation of the cause or causes of sudden or chronic chemical exposure and its potential aftermath is an important civic responsibility. The use of toxicologic information in investigation assessment requires careful field and laboratory analysis, evaluation of data, and scientific judgment. Knowledge in the toxicological field is important to domestic settings, community, law enforcement and workplace atmosphere aiming at providing reasonable theories and conclusions regarding intentional or the non-intentional exposure of poisonous agents that concern human health. Investigation toxicology of a poison exposure can be divided into four measures: 1) obtaining the case history and scene investigation of poisonous contamination, 2) collection of data and/or evidence, 3) methods and procedures designed for toxicological analyses of physical evidence, 4) interpretation of the toxic experience landscape. Establishing the mechanism of exposure rests with the investigative toxicologists, but success in arriving at the correct conclusion may also include the combined efforts of the forensic toxicologist and pathologist. Health care professionals and
public safety providers have the responsibility to investigate, inform and educate the public on the human health concern of poison exposures and the importance in avoiding contact with toxic chemicals and potential poisonous situations. Prerequisite: Pharmacology I. Restrictions: B.S. Pharm Sci>Pharmacol/Pharm Sci Grad>PharmD - (P1)

PHARM 7361 Pharmacology I
Study of the pharmacology of medicinals with emphasis on basic principles, the autonomic nervous system and drugs affecting the cardiovascular and renal systems. Four hours lecture per week. Prerequisites: LS-PHYS 400 and LS-BIOC 366

PHARM 7362 Pharmacology II
Students will study principles of chemotherapy, pharmacology of drug action, drug-mediated toxicity, drugs effecting different organs/systems, and the effect of drugs on clinical condition. Prerequisites: Pharm 7361 or permission of instructor.

PHARM 7366 Oncology and Hematology Pharmacotherapy
Oncology and Hematology Pharmacotherapy provides disease-oriented and pharmacy-oriented insight into the pathophysiology, diagnosis, and rational drug treatment of malignancy. The pharmacist's role in selecting drug products, individualizing dosages, supportive care, and monitoring patients is emphasized, with additional emphasis on safety and handling. Prerequisites: Pharmacology I & Pharmacotherapy II. Offered: Spring

PHARM 7377 Principles Of Nutrition Support
This course will introduce the student to the fundamentals of nutrition support and prepare him/her for future involvement in this important practice area. It teaches practical skills, including assessment of the patient's nutritional status, estimation of calorie and protein requirements and how to recommend an appropriate formulation to meet these requirements. The student will learn indications for parenteral and enteral nutrition and how to select the most appropriate feeding. The student is taught how parenteral and enteral nutrition is safely administered, will learn the major complications, as well as methods to prevent or treat these problems. Topics covered include venous access, care of venous access devises, central vs. peripheral parenteral nutrition, fluid and electrolyte management, admixture compatibility and stability, and management of the nutrition support patient in various disease states. Restrictions: AU 52 Level A & B

PHARM 7378 Introduction to Community Pharmacy Practice
Students will provide patient-centered care in a community pharmacy practice setting. This experience will emphasize application of knowledge gained in didactic course work at the student's level in the curriculum. Activities focus on the delivery of patient care rather than relying on a product-centered model of practice. Prerequisite: Pharm.D. credit and non-credit requirements completed through semester six. Required documentation as noted on the Pharmacy Experiential Programs website. Offered: Summer

PHARM 7379 Introduction to Health Systems Pharmacy Practice
Students will spend two weeks during the summer providing patient-centered care in a health systems pharmacy practice setting. The experience will emphasize application of knowledge gained in didactic coursework at the student's level in the curriculum. Activities focus on understanding the medication use system and delivering care to patients in a hospital setting. The Introductory Pharmacy Practice Experiences seek to establish a solid practice foundation on which students will continually build as they progress through the Doctor of Pharmacy curriculum. Prerequisites: Successful completion of Pharm.D. didactic coursework through semester 6 and submission of required Experiential Programs documentation on file. Offered: Summer

PHARM 7389 Advances In Drug Therapy
Study of the advances in drug delivery and therapy; the concepts of advanced and novel drug delivery systems, modern drug analysis tools, role of efflux protein in drug kinetics, and transporter/receptor mediated drug delivery. Prerequisites: PHARM 303 Co-Prerequisite: PHARM 420 Restrictions: AU 52 Level B Offered: Fall

PHARM 7397 Home Health Care
Anything a patient does in the home concerning their healthcare is considered Home Health Care. All aspects of Home Health Care are covered in this class. Diabetic & Ostomy products & care, Durable Medical Equipment (Wheelchair, cane, crutches, etc.), home Renal Dialysis, Wound Care, Respiratory Therapy, IV accesses, Home Infusion Therapy, Hospice Care, and Enteral Nutrition are presented and discussed. Reimbursement issues are not discussed due to constantly changing regulations. This is a "hands on" class with participation in, for example, ostomy fitting, crutches fitting, enteral nutrition taste testing, and a tour of a Home Infusion Pharmacy. Prerequisite: Familiarity with IV Admixtures. PHARM 362 & PHARM 405 Offered: Fall Restrictions: AU 52 Level A & B Co-Prerequisite: PHARM 420

PHARM 7398 Comprehensive Diabetes Management
The purpose of the course is to provide the student with a multidisciplinary foundation in the principles of diabetes management. The student will develop their knowledge and ability to assess, manage, educate and monitor patients with diabetes. The faculty are comprised of a multidisciplinary team of experts for the online lecturers. The in class discussion will be lead by a faculty member who specializes in diabetes management. Prerequisites: Pathophysiology, Advanced Nursing 548, Pharmacology I,
PHARM 361
Restrictions: AU 52 Levels A, B, C

PHARM 7399 Required Enrollment
Required enrollment for international students in pharmacy training sites.

PHARM 7404P Drug Information Clerkship
The candidate will spend one month providing service in the Drug Information Center. Activities are designed to enhance the candidate's skills in retrieval and critical evaluation of the drug literature. Candidates will participate in answering drug information questions and preparation of documents for pharmacy and therapeutics committees and service contracts of the Drug Information Center. Required rotations.

PHARM 7405 Pharmacotherapy I
Pharmacotherapy I integrates the fundamentals of pathophysiology and pharmacology to develop the student's ability to provide pharmaceutical care. The course promotes the development and application of problem-solving strategies in self-limiting illnesses. In general, two hours of lecture and two hours of small group discussion per week. Prerequisite: NURSE 548, PHARM 325, PHARM 361, PHARM 414 Offered: Winter

PHARM 7406P General Medicine I
The candidate will spend two semesters in a medical service at an affiliate institution. Emphasis of study will be on the care of adults with commonly seen illnesses. Candidates will take part in cnet review conferences, rounds and consultations as directed by the supervising faculty. Successful completion of all coursework through semester 6. Restrictions AU 52 Level B, Prerequisites: PHARM 325 concurrent enrollment in PHARM 420 (Fall) and PHARM 485P (Winter) Offered: Fall/Winter

PHARM 7407P General Medicine II (Ambulatory Care)
The candidate will spend eight weeks in a patient-care service which is dedicated to the care of the ambulatory patient. Emphasis of study will be on pharmacotherapy in adult patients. Candidates are expected to become involved in the provision of primary care, medication maintenance activities and improvement of rationale drug therapy in the practice environment. Strong emphasis is placed on patient counseling and interviewing skills. Required rotation. Prerequisite: Successful completion of all coursework through semester 8. Restrictions: AU 52 Level C Offered: Fall/Winter

PHARM 7409P Health Systems Clerkship
The candidate will spend one month assigned to a health system site. Emphasis of study will be on the organizational, technical and administrative aspects of providing comprehensive pharmaceutical services in a health system. Clinical responsibilities will be maintained throughout the rotation. Candidates will take part in department activities to enhance understanding of the integration of all aspects of pharmaceutical care within the department and other services in the facility (i.e., departmental planning, committee activities, drug distribution, staff supervision and quality assurance programs, formulary management.) Restrictions: AU 52 Level C Offered: Fall & Winter

PHARM 7410P General Medicine III
Continuation of Required General Medicine series. Required rotation. Offered: Fall/Winter Restrictions: AU 52 Level C

PHARM 7412P Community Pharmacy Practice Clerkship
The candidate will spend one month assigned to a faculty member whose practice is based in a community setting. Emphasis of study will be on the organizational, technical and administrative aspects of providing comprehensive pharmaceutical services to patients in a community practice. Clinical responsibilities will be maintained throughout the rotation. Candidates will take part in all aspects of pharmaceutical care within the practice (i.e., distribution, counseling, provision of drug information, operations management and practice development). Required rotation. Offered: Fall & Winter Restrictions: AU 52 Level C

PHARM 7414 Professional Skills III
Students will apply communication skills from prerequisite course work and develop new skills that allow them to provide pharmaceutical care to their patients. Emphasis of study includes: patient interviewing, profile review, counseling, ethical challenge in patient care, communication dilemmas and communicating with other health-care providers and patients with special needs. Additionally, students will be assessed on writing and presentation skills from a range of assignments. One 2 hour lecture and 1.5 hour small group discussion are held per week. Prerequisites: PHARM 101 and COMM-ST 110. Offered: Winter

PHARM 7418P Elective Clerkship I
Elective experiences are an essential element to the candidates' training designed to develop areas of personal interest and to expand their understanding of professional opportunities. These rotations revolve around areas of basic science, clinical practice, research and administration. Candidates may repeat required rotations as electives or may approach faculty to tailor an elective experience to develop an area of interest. Required rotation. Prerequisites: Successful completion of all coursework through semester 8. Offered: Fall/Winter Restrictions: AU 52, Level C
PHARM 7419P General Medicine IV
Continuation of General Medicine series. Required rotation. Prerequisites: Successful completion of all coursework through semester 8

PHARM 7420 Health Assessment & Pharmacotherapy II
This course is designed to foster the student's ability to provide pharmaceutical care. Patient assessment is an integral part of the pharmaceutical care process. Students are expected to continue developing and applying problem-solving strategies to complex disease states commonly encountered in pharmacy practice. Up to seven hours of lecture and two hours of small group discussion can occur per week. Evaluation of skills necessary to assess patients will occur throughout the semester. Students are also expected to complete four examinations during the course. Prerequisite: PHARM 303, PHARM 405, PHARM 362 and NURSE 548. Concurrent enrollment in PHARM 406P required. Offered: Fall

PHARM 7420P Elective Clerkship II-Required
Elective experiences are an essential element to the candidates training designed to develop areas of personal interest and to expand their understanding of professional opportunities. These rotations revolve around areas of basic science, clinical practice, research and administration. Candidates may repeat required rotations as electives or may approach faculty to tailor an elective experience to develop an area of interest. Prerequisite: Successful completion of semesters 1-8 didactic coursework. Restrictions: Parm D Professional level 3&2

PHARM 7421P Elective Clerkship III
Elective experiences are an essential element to the candidates training designed to develop areas of personal interest and to expand their understanding of professional opportunities. These rotations revolve around areas of basic science, clinical practice, research and administration. Candidates may repeat required rotations as electives or may approach faculty to tailor an elective experience to develop an area of interest. Optional rotation.

PHARM 7424 Introduction To Dietary Supplement Therapeutics
The Pharmacy 7424 course is intended to provide students with an awareness of important issues about dietary supplements to consider when providing pharmaceutical care to patients. Students will become familiar with regulations for dietary supplements, learn communication skills specific to discussing supplement use with patients, and the skills to retrieve and interpret reliable information to be able to make decisions about new of unfamiliar supplements. Prerequisites: All Pharm.D. coursework completed through 4th semester.

PHARM 7427 Hospital Pharmacy
The purpose of the course is to provide an introductory overview of health-system pharmacy. Topics covered include pharmacy distribution systems and operations, automation, regulatory issues, as well as the ways in which clinical services are provided in hospitals. The role of pharmacists and effective drug use policy in the acute care setting will be explored in depth.

PHARM 7428 Veterinary Pharmacology
Pharmaceutical preparations used in veterinary medicine. Elective.

PHARM 7434 Professional Skills V: Pharmacy Preparations and Practice
The professional skills V course provides instruction and practice in professional skills of pharmacy including basic non-sterile extemporaneous compounding, basic aseptic technique for sterile compounding of parenteral admixtures, dispensing of prescriptions, and patient counseling for select over-the-counter and prescription products and devices. Students will be utilizing pharmaceutical calculations in the preparation and dispensing of the formulations.

PHARM 7439 Pediatric Pharmacotherapy
Pediatric Pharmacotherapy provides disease-oriented and pharmacy-oriented insight into the pathophysiology, diagnosis, and rational drug treatment of diseases primarily encountered in the pediatric population. The pharmacist's role in selecting drug products, individualizing dosages, and monitoring patients is emphasized. Two hours lecture and 1 hour case discussion per week. Prerequisites: Pharmacy 7361, 7362, and 7405. Offered: Fall semester.

PHARM 7449 Clinical Economics & Medical Decision-Making
This three-hour course is a critical review and evaluation of the economic analysis of medical decision-making. An emphasis will be placed on the critical evaluation of recent literature assessing medical decision-making through the use of such tools as cost-benefit analysis, cost-effectiveness analysis, cost-minimization, markov modeling, bayesian statistics. Prerequisite: Third Yr or Graduate Restrictions: Au 52 or AU 68 91 Level A & B only or instructor consent Offered: Fall

PHARM 7451 Pharmacy Law
Federal and state laws impacting pharmacy practice. Prerequisite: Completion of all required courses through Sem 6.
PHARM 7463 Toxicology
Fundamentals of toxicology, including discussion of the general classes of poisonous substances, their physiological effects, and methods of treatment. Prerequisite: PHARM 361 Offered: Winter Restrictions: AU 51 & AU 52 Level A

PHARM 7465 Health Economics and Medicine
This course introduces major economic dimensions on the health care system. Course covers concepts necessary to understand provider behavior and health care market structure. Basic concepts of health insurance, managed care techniques, pharmacoeconomic methods, and outcomes research techniques to improve overall value of patient care. Prerequisite: Pharm 7233 or instructor permission.

PHARM 7466 Pharmacy Practice Management
Pharmacy Practice Management is a required course for the Doctor of Pharmacy degree program at the University of Missouri-Kansas City School of Pharmacy. The goal of the course is to build the necessary foundation for basic management skills needed as a professional in pharmacy regardless of practice setting. Management activities include management of self, operations, people, finances, goods, and services. This course does not aim to produce management experts in any one particular facet of pharmacy, but rather to equip students with the fundamental concepts to apply management and economic principals in a variety of situations or settings. Prerequisites: Economics of Health and Medicine

PHARM 7467 Religion, Culture And Health
This course addresses the impact of religious beliefs, education, and cultural practices on health and healthcare issues pertinent to various segments of our society. Restrictions: Instructor consent required. Offered: Fall

PHARM 7484P Pharmacy Seminar
Pharm. D. Student Seminar course is designed to provide students with examples and reasoning behind the fundamentals of seminar preparation and delivery and opportunity to utilize their knowledge by presenting a seminar. This experience will be achieved through identification of a topic, development and presentation of a seminar. The student is expected to complete two 40-minute seminars over 2 semesters. Credit/no credit. This is an elective option. Prerequisite(s): Phar 485P. Offered: Fall/Winter.

PHARM 7485P Health Assessment & Pharmacotherapy III
This course is designed to foster the student's ability to provide pharmaceutical care. Patient assessment is an integral part of the pharmaceutical care process. Students are expected to continue developing and applying problem-solving strategies to complex disease states commonly encountered in pharmacy practice. Up to seven hours of lecture and two hours of small group discussion can occur per week. Evaluation of skills necessary to assess patients will occur throughout the semester. Students are also expected to complete four examinations during the course. Prerequisite: PHARM 420. Concurrent enrollment in PHARM 326 and PHARM 406P required. Offered: Winter

PHARM 7489AB Special Topics In Pharmacy

PHARM 7489CE Special Topics in Pharmacy
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

PHARM 7489E Special Topics In Pharmacy
A course designed to deal with a topic which is not available in the regular course offerings. Topic, instructors and prerequisites to be listed in the term bulletin. Elective.

PHARM 7489EB Special Topics Pharmacy
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

PHARM 7489EP Special Topics Pharmacy
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

PHARM 7489EPA Special Topics in Pharmacy
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

PHARM 7489FD Special Topics in Pharmacy
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites
to be listed in the term bulletin. Elective.

**PHARM 7489HN** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489M** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489ME** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489MG** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489MN** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489MU** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489N** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489O** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489P** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

**PHARM 7489PH** Special Topics in Pharmacy  
A course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the term bulletin. Elective.

PHARM 7497E Directed Individual Study-Clinical Pharmacy  
Study in areas of special interest under individual faculty direction. Credit/no credit. Written permission of instructor required. Elective. Not to exceed five semester credits. Offered: Each term. Prerequisite: Consent number required Restrictions: AU 52
**PHARM 7497E** Directed Individual Study-Clinical Pharmacy

Study in areas of special interest under individual faculty direction. Credit/no credit. Written permission of instructor required. Elective. Not to exceed five semester credits. Offered: Each term. Prerequisite: Consent number required Restrictions: AU 52
Appendices

- Addresses/Phone Numbers
- Bookstores
- Policies and Procedures
- School Honor Codes
- University of Missouri System Information

Addresses and Phone Numbers
The main telephone number of the University is (816) 235-1000. Operators are on duty 8 a.m. to 5 p.m. Monday through Friday to direct calls. Application and admission questions should be directed to (816) 235-1111.

The main University Web site is http://www.umkc.edu

The official mailing address for the Volker campus is:
University of Missouri - Kansas City
5100 Rockhill Road
Kansas City, MO 64110-2499

Addresses for the Schools of Dentistry, Medicine, Nursing and Pharmacy on the Hospital Hill campus are shown below. All other addresses are for locator purposes only.

Academic Units

College of Arts and Sciences,
Scofield Hall, 711 E. 51st Street, 816-235-1136, college@umkc.edu, cas.umkc.edu

School of Biological Sciences, Biological Sciences Building, 5007 Rockhill Road, 816-235-1388, sbs-grad@umkc.edu, sbs.umkc.edu

Henry W. Bloch School of Management, Bloch School, 5110 Cherry Street, 816-235-2215, bloch@umkc.edu, www.bloch.umkc.edu

School of Computing and Engineering, Robert H. Flarsheim Science and Technology Hall, Room 534, 5110 Rockhill Road, 816-235-2399, sce@umkc.edu, www.sce.umkc.edu

School of Dentistry, Dental School, 650 E. 25th Street, Kansas City, MO 64108-2784, 816-235-2100, dentistry@umkc.edu, dentistry.umkc.edu

School of Education, Education Building, 615 E. 52nd Street, 816-235-2234, education@umkc.edu, www.umkc.edu/education
School of Graduate Studies, Administrative Center, Room 300F, 5115 Oak Street, 816-235-1161, graduate@umkc.edu, www.umkc.edu/sgs School of Law, School of Law, 500 E. 52nd Street, 816-235-1644, law@umkc.edu, www.law.umkc.edu

School of Medicine, School of Medicine, 2411 Holmes Street, Kansas City, MO 64108-2792, 816-235-1808, medicine@umkc.edu, www.med.umkc.edu

Conservatory of Music and Dance, Performing Arts Center, 4949 Cherry Street, 816-235-2900, conservatory@umkc.edu, conservatory.umkc.edu

School of Nursing, School of Nursing, Health Sciences Building, 2464 Charlotte Street, Kansas City, MO 64108, 816-235-1700, nurses@umkc.edu, nursing.umkc.edu

School of Pharmacy, School of Pharmacy, Health Sciences Building, 2464 Charlotte Street, Kansas City, MO 64108, 816-235-1609, pharmacy@umkc.edu, pharmacy.umkc.edu

Departments of the College of Arts and Sciences

American Studies, Haag Hall, Room 204G, 5120 Rockhill Road, 816-235-1137, am-st@umkc.edu, cas.umkc.edu/ams

Architecture, Urban Planning and Design, Epperson House, 5200 Cherry Street, 816-235-1725, arch@umkc.edu, cas.umkc.edu/aupd

Art and Art History, Fine Arts Building, Room 204, 5015 Holmes Street, 816-235-1501, art@umkc.edu, cas.umkc.edu/art

Center on Aging Studies, 5215 Rockhill Road, 816-235-1747, Fax: 816-235-5193, breytspraakl@umkc.edu, cas.umkc.edu/cas

Chemistry, Spencer Chemistry Building, 5009 Rockhill Road, 816-235-2272, Fax: 816-235-5502, umkc-chemdept@umkc.edu, cas.umkc.edu/chem

Classical and Ancient Studies, 816-235-1305, cas.umkc.edu/classics

Communication Studies, Haag Hall, Room 202, 5120 Rockhill Road, 816-235-1337, Fax: 816-235-5539, com-s@umkc.edu, cas.umkc.edu/comm

Economics, Haag Hall, Room 211, 5120 Rockhill Road, 816-235-1314, Fax: 816-235-2834, economics@umkc.edu, cas.umkc.edu/econ

English Language and Literature, Cockefair Hall, Room 106, 5121 Rockhill Road, 816-235-1305 or (816) 235-1307, Fax: 816-235-1308, english@umkc.edu, cas.umkc.edu/english

Foreign Languages and Literatures, Scofield Hall, Room 216, 711 East 51st Street, 816-235-1311, Fax: 816-235-1312, frn-lg@umkc.edu, cas.umkc.edu/foreign
Geosciences, Robert H. Flarsheim Science and Technology Hall, Room 420, 5110 Rockhill Road, 816-235-1334, Fax: 816-235-5535, geosciences@umkc.edu, cas.umkc.edu/geo

History, Cockefair Hall, Room 203, 5121 Rockhill Road, 816-235-1631, Fax: 816-235-5723, history@umkc.edu, cas.umkc.edu/history

Honors Program, Haag Hall, Room 204, 5120 Rockhill Road, 816-235-2820, Fax: 816-235-5542, umkchonors@umkc.edu, cas.umkc.edu/honors

Hospitality Studies, 5300 Rockhill Road, 816-235-5954, hspt-st@umkc.edu, cas.umkc.edu/hospitality

Mathematics and Statistics, Haag Hall, Room 206, 5120 Rockhill Road, 816-235-1641, math@umkc.edu, cas.umkc.edu/math

Military Science, 5322 Rockhill Road, 816-235-1152, armyrotc@umkc.edu

PACE/Program for Adult College Education, Scofield Hall, Room 104 711 E. 51st Street, 816-235-1588, Fax: 816-235-5760, pace-pgm@umkc.edu, cas.umkc.edu/pace

Philosophy, Cockefair Hall, Room 222, 5121 Rockhill Road, 816-235-1331, Fax: 816-235-2819, philosophy@umkc.edu, cas.umkc.edu/philosophy

Physics, Robert H. Flarsheim Science and Technology Hall, Room 257, 5110 Rockhill Road, 816-235-1604, Fax: 816-235-5221, hinkkf@umkc.edu, cas.umkc.edu/physics

Political Science, Haag Hall, Room 213, 5120 Rockhill Road, 816-235-1326, Fax: 816-235-5594, pol-sc@umkc.edu, cas.umkc.edu/polisci

Pre-Law Program, Scofield Hall, Room 23, 711 E. 51st Street, 816-235-6094, cas.umkc.edu/prelaw

Psychology, 4825 Troost Avenue, suite 124, 816-235-1318, Fax: 816-235-1062, psychology@umkc.edu, cas.umkc.edu/psych

Religious Studies, Haag Hall, Room 204E, 5120 Rockhill Road, 816-235-5704 or (816) 235-5854, Fax: 816-235-5542, rel-st@umkc.edu, cas.umkc.edu/religious_studies

School of Social Work, 4825 Troost Avenue, suite 106, 816-235-1025, Fax: 816-235-6573, soc-wk@umkc.edu, cas.umkc.edu/socialwork

Sociology/Criminal Justice and Criminology, Haag Hall, Room 208, 5120 Rockhill Road, 816-235-1116, Fax: 816-235-1117, sociology@umkc.edu, cas.umkc.edu/soc
Theatre, 5319 Holmes Street, 816-235-2702, Fax: 816-235-6552, theatre@umkc.edu, cas.umkc.edu/theatre

Urban Studies, Robert H. Flarsheim Science and Technology Hall, Room 420, 5110 Rockhill Road, 816-235-2971, Fax: 816-235-5535, drieviers@umkc.edu

Women's and Gender Studies, Haag Hall, Room 204B, 5120 Rockhill Road, 816-235-2734, Fax: 816-235-5542, wgs@umkc.edu, cas.umkc.edu/wgs

Departments and Offices

Academic Advising/Information, Contact a specific department or school.

Admissions, Office of, Administrative Center, Room 120, 5115 Oak Street, 816-235-1111, admit@umkc.edu, www.umkc.edu/admissions

Assistantships, Applications for, Contact a specific department or school.

Athletics, Dept. of Intercollegiate, Swinney Recreation Center, Room 201, 5030 Holmes Street, 816-235-1036, athletics@umkc.edu, www.umkc.edu/athletics

Berkley Child and Family Development Center, Berkley Child and Family Enrichment Center, 1012 E. 52nd Street, 816-235-2600.

Bookstore, Hospital Hill Campus, Health Sciences Building, 2418 Charlotte Street, 816-235-2191, umkchealthbooks@umkc.edu, http://www.umkchealthbooks.com

Bookstore, Volker Campus, University Center, Mid-level, 5000 Rockhill Road, 816-235-2665, bookstore@umkc.edu, http://www.umkcbookstore.com

Call Center, (816) 235-2000, umkciscallcenter@umkc.edu, http://www.umkc.edu/is/support/callcenter/ Technicians are on duty 7 am. - 7 pm. Monday - Thursday, 7 am. - 5 pm. Friday to provide computer support for the campus.

Counseling Services, 4825 Troost Avenue, suite 206, 816-235-1635, chtc@umkc.edu, www.umkc.edu/chtc

Disabled Student Services, University Center, Room LL 23, 5000 Holmes Street, 816-235-5696, disability@umkc.edu, www.umkc.edu/disability

Diversity and Equity, Administrative Center, Rooms 218A and 223, 5115 Oak Street, 816-235-1323, ode@umkc.edu, www.umkc.edu/adminfinance/eqaa

Fees (Cashier's Office), Administrative Center, Room 112, 5115 Oak Street, 816-235-1365, cashiers@umkc.edu, www.umkc.edu/adminfinance/finance/cashiers
Financial Aid and Scholarships Office, Administrative Center, Room 101, 5115 Oak Street, 816-235-1154, finaid@umkc.edu, www.sfa.umkc.edu

Housing, Residential Life Office, Cherry Hall, 5030 Cherry Street, 816-235-8956, housing@umkc.edu, www.umkc.edu/housing

Housing, Cherry Hall Administrative Office, Cherry Hall, 5030 Cherry Street, 816-235-2800,

Housing, Oak Street Residence Hall Administrative Office, Oak Street Residence Hall, 5051 Oak Street, 816-235-8717

Human Resources, Administrative Center, Room 226, 5115 Oak Street, 816-235-1621, hr@umkc.edu, www.umkc.edu/adminfinance/hr

Information Center, Campus, University Center, lobby, 5000 Holmes Street, 816-235-5555.

International Academic Programs, Center for 5325 Rockhill Road, 816-235-5759, international@umkc.edu, www.umkc.edu/iap

International Student Affairs, Office of, International Student Affairs Office, 5235 Rockhill Road, 816-235-1113, isao@umkc.edu, www.umkc.edu/isao

Kansas City Repertory Theatre, Performing Arts Center, Central Ticket Office, 4949 Cherry Street, 816-235-2700, http://www.kcrep.com

Minority Student Affairs, 5245 Rockhill Road, 816-235-1109, msa@umkc.edu, www.umkc.edu/msa

Parking Operations, Automobile Registration, Administrative Center, Room 221, 5115 Oak Street, 816-235-5256, parking@umkc.edu, www.umkc.edu/adminfinance/parking

Police, UMKC, 4825 Troost Avenue, Room 213, 816-235-1515, www.umkc.edu/adminfinance/police

Registration, UMKC Registration Center, Administrative Center, Room 115, 5115 Oak Street, 816-235-1125, registrar@umkc.edu, www.umkc.edu/registrar

Student Health and Wellness Center, 4825 Troost Avenue, Room 115, 816-235-6133, studenthealth@umkc.edu, www.umkc.edu/chtc/health

Student Life Office, University Center, Room G6, 50th and Rockhill Road, 816-235-1407, stulife@umkc.edu, www.umkc.edu/stulife

Student Pharmacy, 4825 Troost Avenue, Room 115, 816-235-6103, studenthealth@umkc.edu, www.umkc.edu/studenthealth
Swinney Recreation Center, Swinney Recreation Center, 5030 Holmes Street, 816-235-1772, src@umkc.edu, www.umkc.edu/src

Testing Services, 4825 Troost Avenue, Room 206, 816-235-1635, chtc@umkc.edu, www.umkc.edu/chtc/testing

Transfer Credit Policies, Admissions/Enrollment Services, Administrative Center, Room 120, 5115 Oak Street, 816-235-1111, admit@umkc.edu, www.umkc.edu/admissions

Transcripts and Records, UMKC Records Office, Administrative Center, Room 115, 5115 Oak Street, 816-235-1121, registrar@umkc.edu, www.umkc.edu/registrar

University News (UMKC Student Newspaper), 5327 Holmes Street, 816-235-1393, www.unews.com

Veterans Services, Veteran Affairs, Administrative Center, Room 115, 5115 Oak Street, 816-235-1112.

Welcome Center, Administrative Center, Room 120, 5115 Oak Street, 816-235-8652; (816) 235-UMKC, welcome@umkc.edu, www.umkc.edu/welcome

Women's Center, Haag Hall, Room 105, 5120 Rockhill Road, 816-235-1638, womenscenter@umkc.edu, www.umkc.edu/womenc

Writing Center, The Writing Center, 5201 Rockhill Road, 816-235-1146, umkcwritingcenter@umkc.edu, cas.umkc.edu/writingcenter
**Bookstores**

UMKC Bookstore Student Union  
5100 Cherry Street  
(816) 235-BOOK (2665)  
Fax: (816) 235-1443  
bookstore@umkc.edu  
http://www.umkcbookstore.com

Health Sciences Bookstore Health Sciences Building  
2418 Charlotte Street  
(816) 235-2191  
Fax: (816) 235-2747  
umkchealthbooks@umkc.edu  
http://www.umkchealthbooks.com

Manager: Pete Eisentrager

Owned and operated by the University of Missouri, the UMKC bookstores provide a wide array of educational materials and a variety of services. Student success hinges on having the necessary resources at the right time and the right price. At the main bookstore in University Center, students can find a wide array of educational materials and a variety of services to assist in their academic success. Required and recommended textbooks are immediately available, as well as numerous supplemental materials including general reference and study guides. The UMKC bookstore also carries bestsellers, fiction, non-fiction and academic titles as well as an assortment of school and office supplies. Need something special to show your college spirit? Come browse through our large selection of UMKC clothing and gifts. Other services for your convenience include:

- Textbook Reservation program  
- Textbook Buyback  
- Graduation Fairs  
- The Booker’s Dozen reading rewards program  
- Special Order programs

**Technology is Affordable and Easy**

At RooTech, located inside the main bookstore, UMKC students are automatically eligible for special savings on technology hardware, software and supplies. Look no further for a technology package that is user friendly and residence hall ready. A valid UMKC ID is necessary to obtain these terrific savings with educational pricing.

**Textbook Buyback**

There aren't too many items that can be purchased, used for a few months and then returned to the store for cash. During the last two weeks of the fall and spring semesters, an independent wholesale book company conducts book buyback to help the campus bookstore fill the textbook
department with used books required for the upcoming semester. At this time, students can sell back their books for cash. If an instructor has requested a particular book for the next semester, the bookstore will pay up to 50 percent of the new price until the order is filled. Even if you originally bought the book for used price, you’ll still get 50 percent of the new price if the book is needed. If a textbook is not required for the upcoming semester or if an instructor has not yet turned in their order, the wholesale book company may buy back your books to fill orders at other colleges and universities. They may offer you 0-30 percent of the new book price. Sometimes, books cannot be bought back due to a newer edition being used or if the book is in unsaleable condition.

**Convenient Payment Options**
Customers may use cash, personal checks, credit cards (MC, Visa or Discover), UMKC Bookstore Gift Cards and student charge. A valid photo ID is required for check transactions and a valid UMKC ID is required for student charge.

**Student Charge**
Student charge is available for financially enrolled students. Student charge allows students to purchase bookstore items with their UMKC ID and charge it to their UMKC account. Financial enrollment means that a student has made the minimum educational fee payment for the academic semester. A student may not student charge if they are not officially enrolled for the current semester (eg. if you’re not enrolled for summer school, you can’t student charge during the summer semester). A student may charge a maximum of $1,000 per semester. Once the limit is reached, another form of payment is needed. Making a payment to your University of Missouri bill will not adjust the balance back to $1,000.

Whether visiting in person or online, you will find there's more at your UMKC Bookstore, where profits support student services, facilities and programs.
University of Missouri System Information

Campus locations: Kansas City, Columbia, Rolla, St. Louis

Total enrollment (fall 2006): 63,783; 75 percent undergraduates, 25 percent graduate and first professional students

Web site: http://www.umsystem.edu/

Total degrees granted: 12,323 in fiscal year 2006

Total faculty (fall 2006): 7,478; 67 percent full time, 33 percent part time

Total staff (fall 2006): 16,457; 74 percent full time, 26 percent part time

Student financial aid: $587,705,678 in grants, loans, work programs, scholarships, fellowships and other aid awarded to 51,341 students in fiscal year 2006

Land holdings: 19,517 acres

Campus Information

Inquiries regarding admission to the other three campuses of the University of Missouri should be directed to the following addresses. Phone numbers are also listed.

University of Missouri-Columbia
Director of Admissions
230 Jesse Hall
Columbia, MO 65211
800-225-6075
mu4u@missouri.edu
http://prospectivestudents.missouri.edu/

Academic Units

College of Agriculture, Food and Natural Resources
College of Arts and Sciences
College of Business
College of Education
College of Engineering
College of Human Environmental Sciences
College of Veterinary Medicine
School of Accountancy
School of Fine Arts
School of Health Professions
School of Information Science and Learning Technologies
School of Journalism  
School of Law  
School of Medicine  
School of Music  
School of Natural Resources  
School of Nursing  
School of Public Affairs  
School of Social Work  
Graduate School  
Honors College  
Extension Division  

**University of Missouri-Rolla**  
**Director of Admissions**  
University of Missouri-Rolla  
106 Parker Hall  
Rolla, MO 65409  
800-522-0938  
admissions@mst.edu  
http://admissions.mst.edu/  

**Academic Units**  
College of Arts and Sciences  
School of Engineering  
School of Management and Information Systems  
School of Mines and Metallurgy  
Office of Continuing Education  

**University of Missouri-St. Louis**  
**Director of Admissions**  
University of Missouri-St. Louis  
351 Millennium Student Center  
St. Louis, MO 63121  
314-516-5451  
admissions@umsl.edu  
http://www.umsl.edu/  

**Academic Units**  
College of Arts and Sciences  
School of Nursing and Health Studies  
College of Business Administration  
College of Education  
College of Fine Arts and Communication  
College of Optometry
Evening College
Continuing Education Outreach
Graduate School
Honors College
St. Louis/Washington University
Joint Undergraduate Engineering Program
Continuing Education and Outreach

University of Missouri Extension

http://extension.missouri.edu/

Every year, more than 1 million Missourians turn to University of Missouri Extension to help them address complex change, solve problems and make informed decisions. They benefit from one-on-one assistance, seminars, online courses and research-based publications. They further their formal education through degrees and continuing education.

An integral part of the University’s land-grant mission, University of Missouri Extension is a joint venture of the UM campuses, Lincoln University, the people of Missouri through county extension councils, the U.S. Department of Agriculture, and other stakeholders and partners. People throughout Missouri have access to University experts through county extension centers and through the Web: extension.missouri.edu

Using science-based knowledge, University of Missouri Extension focuses University resources on high-priority needs at the local level. Educational programs address agriculture and natural resources; business and workforce development; community development; 4-H youth development; and human environmental sciences, including health and nutrition.

The statewide TeleCenter Network, administered by University of Missouri Extension, links University faculty and staff with local learners using interactive video and other distance technologies to deliver credit and non-credit education to citizens at times and places convenient for them.
**School Honor Codes**

School of Pharmacy Honor Codes  
School of Medicine Honor Codes  
School of Dentistry Honor Codes  
School of Nursing Honor Codes  
School of Law Honor Codes

**School of Pharmacy Honor Codes**  
Honor Council Procedures for Violations of the Standards of  
Professional Growth and Ethical Behavior  
University of Missouri-Kansas City School of Pharmacy

I. Jurisdiction of the Honor Council  
The Honor Council shall be concerned with specified incidents of alleged violations by University of Missouri-Kansas City School of Pharmacy students of the School’s Standards of Professional and Ethical Behavior, Sections IIA and IIB. Violations of the University of Missouri Student Conduct Code as described in Section III will be referred to the Office of the Vice Chancellor for Student Affairs. The standards identify areas of conduct which are judged unacceptable for individuals who are either in or aspire to be in the profession of pharmacy. The Standards of Professional and Ethical Behavior are distributed to all newly enrolled students during orientation. When a pharmacy student has been charged with one or more acts of misconduct according to these standards, the Honor Council shall adhere to the following procedures detail herein. The Honor Council shall have the authority to recommend sanctions upon any accused appearing before the Council. The disciplinary proceedings described are not to be construed as judicial trials. Care shall be taken, however, to comply as fully as possible with the spirit and intent of these procedural safeguards.

II. Organization of the Honor Council  
A. Composition  
The Honor Council members shall consist of the Chair; three voting faculty members, one from each division (3 votes); and one student member from each year 2-6 of the professional degree programs (5 students). The three most senior students no in accused’s class will vote. Voting will take place by secret ballot. The chair and faculty members will not be administrators or division chairs. Four members or their alternates (2 faculty (to exclude the chair), 2 students) constitute a quorum. One nonvoting Honor Council staff member will assist the Chair in generation of reports and will be present at the hearings to take minutes. In case of a tie among the Honor Council as a whole, the chair shall vote in order to make the final determination upon recommendations from the other members. Proxy votes will not be allowed.
B. Eligibility and Appointment

The chair of the Honor Council shall be elected by the full faculty. An alternate will also be elected. The three division representatives and an alternate for each shall be elected by their respective divisions. The student representatives and their alternates shall be elected by their class officers. All elections shall be held on an annual basis at the beginning of the academic year, no later than September 15. After elections, a preliminary meeting of all members to discuss the role and function of the Honor Council will be held within two weeks.

C. Time of Appointment and Term of Office

All members shall serve a one year appointment or until replaced by election but may be re-elected in subsequent years. A student is ineligible to continue as a member of the Honor Council if placed on academic or disciplinary probation, or if for any other reason membership of the Council may not be in the best interest of the School of Pharmacy as determined by the Honor Council chair. In this case, the alternate would assume membership on the Council, and another alternate would be chosen by the class officers.

D. Primary Administrative Liaison (PAL)

A primary administrative liaison (PAL) will be appointed by the Dean for a minimum of a two year term. The PAL will draft the charge and represent the School of Pharmacy in all cases. The PAL will include all references to the School of Pharmacy within this document.

III. Procedures for Report of Violation, Investigation, Informal Disposition, and Notice

A. Report of Violation

An alleged violation of the Standards of Professional and Ethical Behavior should be reported to the PAL of the Honor Council or designee as soon as possible after discovery of the incident. The Chair shall notify the Dean of all accusations.

B. Preliminary Procedures and Meeting

The PAL shall investigate any reported student misconduct before initiating formal conduct procedures. The PAL is responsible for notifying the accused, in writing by certified mail, of the allegations brought against him/her prior to the commencement of the preliminary meeting and shall receive a copy of these Procedures for Violations of the Standards of Professional and Ethical Behavior along with the written notice. The PAL shall meet with the accused student to give the student the opportunity to present a personal version of the incident or occurrence.

C. Informal Disposition

The PAL shall have the authority to dismiss an allegation or propose appropriate sanctions to the accused student and shall fix a reasonable time within which the student shall accept or reject a proposed informal disposition. A failure of the student either to accept or reject within the time
fixed shall be deemed to be an acceptance and, in such event, the proposed disposition shall become final upon expiration of such time. If the student rejects informal disposition, it must be in writing and shall be forwarded to the Honor Council.

D. Prior to Formal Hearing

The PAL shall draft the charge and call the Honor Council into session for a preliminary meeting within 10 working days of receipt of a written accusation of misconduct. The Chair of the Honor Council shall approve meeting dates. In the case that an elected member and an alternate have a conflict of interest in the case, the electing body would choose another member for the one case at the time of the preliminary meeting. [See section IIB for election procedures.] If the case is found to be within the jurisdiction of the Honor Council, a formal hearing will be held. If it is not within the jurisdiction of the Honor Council, the case will be forwarded to the Office of the Vice Chancellor for Student Affairs or other appropriate action will be taken. The PAL and the accused may meet with the Chair separately to discuss these policies and procedures. The Dean, designee, or other appropriate university official(s), may at any time temporarily suspend or deny readmission to the accused from the School of Pharmacy pending formal procedures when the Dean or the Chancellor or the Chancellor’s designee finds and believes from available information that the presence of the accused on campus would seriously disrupt the School of Pharmacy or constitute a danger to the health, safety, or welfare of members of the School of Pharmacy community. The appropriate procedure to determine the future status of the accused will be initiated within seven calendar days of any action taken.

E. Notice of Formal Hearing

If the accusation is found at the preliminary meeting to be within the jurisdiction of the Honor Council, the formal hearing will be held within 15 working days of mailing of the official notice. Notice by certified mail will be sent to the address currently on record with the UMKC Registrar’s Office. Failure by the accused to have a current local address on record with the Registrar’s Office shall not be construed to invalidate such notice. The PAL, witnesses, and the accused will be given written notice of the hearing by certified mail. The notice shall set forth the date, time, and place of the alleged violation, the conduct for inquiry, the date, time and place of the hearing before the Council, request for attendance of the parties involved, and a reference for the accused to the Rights of the Accused Student Upon Hearing which are outlined in these Procedures. The notice shall be given at least seven (7) consecutive calendar days prior to the hearing, unless a shorter time be fixed by the Chair for good cause. Any request for continuance shall be made in writing to the Chair who shall have the authority to postpone the hearing if it is determined that the request is timely and made for good cause. The Chair shall notify the Honor Council members, the accused, the PAL, the witnesses, and any other relevant individuals of the new date for the hearing. If the accused fails to appear at the scheduled time, the Honor Council may hear and determine the matter in the accused’s absence.

IV. Procedure for Honor Council Hearing

A. Rights of the Honor Council

The Honor Council shall have the right to:
• hear together cases involving more than one accused which arise out of the same act of misconduct, but in that event shall make separate findings and determinations for each accused;

• permit a stipulation of facts by the accused involved and the PAL;

• permit the incorporation in the record by a reference of any document, affidavit, or other material produced and desired in the record by the PAL or the accused charged and make a determination of whether the information is relevant to the case at hand.

• question witnesses, the accused, and/or the PAL or challenge other evidence introduced by either the PAL or the accused at any time;

• hear from the Council Chair about dispositions made in similar cases;

• call additional witnesses or require additional investigation,

• dismiss any action at any time;

• permit or require at any time, within a reasonable time as determined by the Council, amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Council before final determination of the case; provided, however, that in such event the Council shall grant to the accused or the School such time as the Council may determine reasonable under the circumstances to answer or explain such additional matters; and,

• dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Council Chair on any procedural question or request of the Chair for order.

B. Rights of the Accused Upon Hearing

The accused scheduled to appear before the Honor council pursuant to formal notice of charges and disciplinary hearing shall have the right to:

• submit a written response to the charge outlined in the Notice before the scheduled hearing is to commence;

• request in advance of the scheduled hearing a review of any materials contained in the accused’s hearing file which will be kept in the Student Affairs Office;

• submit a written request for the identities of witnesses to be called to testify before the Council;

• be present at the hearing;

• have an advisor or counselor appear with the accused and to consult with such an adviser or counselor before and/or during the hearing: however, the adviser/counselor will not be allowed
to question witnesses and/or address members of the Council:

• hear or examine evidence presented to the Honor Council

• question the PAL and/or witnesses present who are testifying at the hearing.

• present evidence by witness, affidavit, written report, other memoranda, photographs, drawings, and any other relevant evidence of any defense the accused desires:

• make any statement to the Honor Council in mitigation or explanation of the conduct in question;

• remain silent to avoid self-incrimination;

• be informed in writing of the findings and any decisions imposed by the Honor Council, the Executive Committee; and, • appeal the decision and/or disposition to the Chancellor, as herein provided.

C. Rights of School of Pharmacy

The Primary Administrative Liaison (PAL) has the right to:

• be present at the hearing;

• present evidence by witness, affidavit, written report, other memoranda, photographs, drawings, and any other relevant evidence the PAL desires;

• offer rebuttal at the appropriate time as determined by the Chair;

• question witnesses or the accused;

• have an adviser or counselor appear with the PAL and to consult with such an adviser or counselor before or during the hearing; however, the adviser/counselor will not be allowed to question witnesses and/or address members of the Council;

• hear or examine evidence presented to the Honor Council by witnesses or the accused; and,

• be informed in writing of the findings and any decisions imposed by the Honor Council or the Executive Committee.

D. Rights of Witnesses

Witnesses shall be notified of the scheduled time, date, and location of the hearing. Witnesses shall bring with them whatever documentation is requested. Failure of a student witness to appear, without good cause, is a violation of the Standards of Professional and Ethical Behavior.
E. Record of Hearing

All proceedings of the Honor Council are to be held in the strictest confidence by the members and all other persons involved. The hearings shall be audio taped, and written minutes will also be recorded. The notice, exhibits, hearing record, verdict, and disposition of the Honor Council shall become the record of the Case. This official document shall be filed under strictest security in the permanent records of the Students Affairs Office of the School of Pharmacy. The record shall be accessible at the reasonable times and places to both the University and the accused for the purpose of review or appeal.

F. Conduct of the Hearing

The Honor Council Chair shall preside at the hearing, call the hearing to order, call the roll of the Honor Council members in attendance, ascertain the presence or absence of the accused, read the Notice of Hearing and Charge and verify the receipt of Notice of Charge by the accused, report any continuances requested or granted, establish the presence of any adviser or councilor of the accused, call the attention of the accused and the adviser any special or extraordinary procedures to be employed during the hearing, and permit suggestions for or objections to any procedures for the Honor Council to consider. NOTE: Advisors will not be allowed to questions the PAL, witnesses, and/or address members of the Council. All requests to address the Council shall be addressed to the Chair. The Chair will rule on all requests and points of order and may consult with Council’s legal adviser prior to any ruling. The Chair’s ruling shall be final, and all participants shall abide thereby, unless the Chair shall present the question to the Council at the request of a member of the Council, in which event, the ruling of the Council by majority vote shall be final. Rules of common courtesy and decency shall be observed at all times.

1. Opening Statements

• The Honor Council Chair or designee shall make opening remarks outlining the general nature of the case.

• The accused may make an opening statement to the Council about the charge at this time.

• The PAL may make an opening statement and may add additional clarification to other opening statements as necessary.

• Witnesses of the School of Pharmacy are to be called by the PAL and identified or written reports of evidence are introduced as appropriate.

• The Council may question witnesses at any time.

• The accused may question witnesses or examine evidence at the conclusion of the PAL’s presentation.
2. School of Pharmacy’s Evidence
• The PAL may question own witnesses.

• The accused shall have the opportunity to make a statement to the Honor Council about the charge.

• The accused may present evidence through witnesses or written memoranda.

• The Council may question the accused or witnesses at any time.

• The PAL may question witnesses or examine evidence at the conclusion of the accused’s presentation.

• the accused may question own witnesses.
• Accused’s Evidence:

4. Rebuttal Evidence:

The Honor Council may permit the PAL or the accused to offer a rebuttal to the other’s presentation. If it appears that essential testimony is unavailable, or that for other good cause the hearing should be deferred, the Council may continue, recess or discontinue the hearing without prejudice.

V. Determination of the Honor Council

Following the hearing, the Council shall promptly deliberate in closed session out of the presence of the accused, the witnesses, or the PAL. Determination is to be made regarding both the validity of the charge and the discipline, if any, to be imposed.

A. Violation of the Standards of Professional and Ethical Behavior

The Honor Council shall determine if the evidence presented in the hearing supports the charge of violation of the Standards of Professional and Ethical Behavior. The Council shall render a decision, by simple majority vote, of whether a violation has been committed by the accused. Each charge, if there are more than one, shall be considered individually and/or collectively at the discretion of the Council.

B. Discipline Imposed

The Honor Council shall determine the discipline to be imposed, if any, based upon its deliberations. The following forms of discipline are to be recommended by means of a simple majority vote of the Council members. Where there are multiple violations, there can be separate sanctions for each violation. The sanctions include, but are not limited to, the following:
No Disciplinary Action –

Given when the student is not found in violation of the Standards of Professional and Ethical Behavior.

Warning

– A written reprimand that the student has violated the Standards of Professional and Ethical Behavior.

Probation –

A written reprimand for violation of the Standards of Academic Conduct that includes a designated period of time, the probability of more severe sanctions if the student violates any institutional regulations(s) during the probationary period, and subject to any appropriate terms or conditions, such as loss of privileges, restitution, and discretionary assignments.

Suspension –

An involuntary separation from the School of Pharmacy for a specified period of time or until special conditions have been met, with a statement whether suspension should relate back to the date of the offense, begin at the time imposed, or begin at a date specified in the future. At the conclusion of the period of suspension, the suspended student is automatically returned to student status. Conciliation for readmission may be specified.

Dismissal –

An involuntary separation from the School of Pharmacy for an indefinite period of time. The order of dismissal may specify a date before which the faculty will not consider a petition for readmission from the dismissed student.

Expulsion –

Permanent separation from the School of Pharmacy. A copy of the imposed sanction is to be placed in the student’s non-academic file.

C.

An oral presentation of the Council’s findings and recommendations is permitted following the hearing, but a written document including findings of fact, verdict, and recommended disposition shall be completed as soon as possible after the hearing. This Final Report of the Council shall be submitted to the Executive Committee and the Office of the Vice Chancellor for Student Affairs. All parties will be notified in writing of the Honor Council’s recommendation by certified mail within seven calendar days.
VI. Decision of the Executive Committee

The findings and determination of the Honor Council serve as recommendations to the Executive Committee. The Executive Committee, as described in the School of Pharmacy By-Laws, chaired by the Dean or designee, reviews the charge, the finding of fact, the decision of the Council, and the recommended discipline to be imposed from the Honor Council. They also assured that the procedures outlined for the Honor Council were successfully followed. The Executive Committee has the right to request further information from either party. Either party can also request to address the Executive Committee. In either case, both parties will be notified of the request, the nature of the request, and be asked to attend if deemed necessary by the Executive Committee. Both parties will have the same rights as they have upon hearing as outlined in IV B & C of this document. The Executive Committee hearings shall be audio taped, and written minutes will also be recorded. The notice, exhibits, hearing record, verdict, and disposition of the Executive Committee shall become the record of the Case. This official document shall be filed in the permanent records of the Student Affairs Office of the School of Pharmacy. The record shall be accessible at the reasonable times and places to both the University and the accused for the purpose of review or appeal. After deliberation and careful consideration, the Executive Committee approves, by simple majority vote, one of the following actions:

• to sustain the recommendations of the Honor Council;

• to amend the recommendations of the Honor Council to another type of sanction;

• to remand the Honor Council’s recommendations; or,

• to reverse the Honor Council’s recommendations.

The Dean shall notify the accused of the findings of the Honor Council and the Executive Committee in writing, by certified mail, within seven calendar days of the Executive Committee meeting. Copies of the letter will be sent to the Honor Council Chair, the PAL, and the Office of Student Affairs for placement in the accused’s file and in the official hearing file.

VII. Right of Appeal

When a recommendation from the Honor Council and the Executive Committee is made for some form of disciplinary action other than ‘no disciplinary action’, the accused may appeal such decision to the Chancellor or designated representative by filing written notice of appeal with the Chancellor within ten (10) consecutive calendar days after notification of the decision of the Executive Committee. A copy of the Notice of Appeal will also be given by the accused to the Dean of the School of Pharmacy at the time of filing who will transmit copies to the Executive Committee and the Honor Council. The accused may file a written memorandum for consideration by the Chancellor with the Notice of Appeal.

The Chancellor or designated representative shall review the record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify
the Dean and the accused in writing of the decision on the appeal. The action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

Status during Appeal:

In cases of suspension, dismissal or expulsion where a Notice of Appeal is filed within the required time, the accused may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit the accused to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not disrupt the University or constitute a danger to the health, safety or welfare of the University Community. In such event, however, any final disciplinary action imposed shall be effective from the date of the action of the Executive Committee.

VIII. Status of the Standards of Professional and Ethical Behavior

Amendments to the Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations may be proposed by petition of any twenty-five members of the student body, or the Honor Council on its own motion, or the faculty.

A proposed amendment in the Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations must be approved by a 2/3 majority vote of the Honor Council members present (all members have the right to vote on amendments = 9 votes), by a 2/3 majority vote of the faculty present, by the Chancellor, and the Board of Curators.

The Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations may be terminated at any time by action under the general amending procedure.
Standards of Professional and Ethical Behavior
University of Missouri-Kansas City School of Pharmacy

I. Preamble

One of the goals of a pharmacy school is to educate a pharmacy student during the transition to a professional life. The University of Missouri-Kansas City School of Pharmacy has an obligation to evaluate students pursuing the B.S. and Pharm.D. practice degrees as thoroughly as possible for their cognitive abilities, their academic and professional knowledge and skills, their integrity, and their suitability for the practice of pharmacy. Accordingly, the Standards of Professional and Ethical Behavior detailed in this document have been developed to guide the pre-professional behavior of professional degree-seeking pharmacy students of the University of Missouri-Kansas City School of Pharmacy and to prepare the pharmacy students to meet the ethical standards of the pharmacy profession.

Students enrolled in the graduate programs in pharmaceutical sciences and pharmacology will be governed by the University of Missouri Student Conduct Code.

II. Professional Integrity

A. Professional Integrity

1. Honesty

A pharmacy student shall deal honestly with people including, but not limited to, colleagues, instructors, representatives of the University, patients, attending physicians, and other members of the health care team. Pharmacy students are expected to demonstrate honesty and integrity in all aspects of their interaction with patients and staff—particularly in assuring accuracy and completeness in their actions and documentation. The pharmacy student shall be willing to admit errors and must not mislead others or promote himself/herself at the patient’s expense. The pharmacy student shall strive to report, by utilizing the Honor Council Procedures for Violations of the Standards of Professional and Ethical Behavior, those pharmacy students deficient in character or competence, or who engage in fraud or deception.

The basic principle underlying all research is honesty. Scientists and pharmacy students who participate in research have a responsibility to provide research results of the highest quality; to gather facts meticulously, to keep impeccable records of work done; to interpret results realistically, not forcing them into preconceived molds or models; and to report new knowledge through appropriate channels. Co-authors of research reports must be sufficiently acquainted with the work of their co-workers that they can personally vouch for the integrity of the study and validity of the findings, and must have been active in the research itself.
Examples of academic dishonesty include, but are not limited to, the following:

**Cheating**

- use of any unauthorized assistance in taking quizzes, tests, or examinations;
- dependence upon the aid of unauthorized sources in writing papers, preparing reports, solving problems, or carrying out other assignments;
- acquisition or possession without permission of tests or other academic material belonging to a member of the University faculty or staff;
- in any way giving assistance to others who are participating in any of the three preceding types of behavior; or
- falsifying attendance records or other official documents.

**Plagiarism**

- use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference;
- unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or
- unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

**Sabotage**

- unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University community.

Examples of dishonesty related to clinical practice include, but are not limited to, the following:

**Falsification of Patient’s Medical Record or Information**

- Writing progress notes or other documentation regarding the patient’s status, including, but not limited to, clinical observations or results in the patient’s chart when the pharmacy student has not seen or evaluated the patient, or using incorrect times of data entry.
- Reporting medical information such as physical examination finds, lab values, test results, any other relevant patient information to other students, residents, attending physicians, the patient, the patient’s family, or other relevant health care personnel that has been fabricated by the pharmacy student.
2. Responsibility

A pharmacy student must acquire competencies with the appropriate concepts, knowledge, and skills which the faculty determine to be essential. These competencies shall be utilized to care for the sick and to promote the health and welfare of society. A pharmacy student shall recognize a responsibility to participate in activities contributing to an improved community.

Pharmacy students in the care of patients must not be harmful, dangerous, or negligent to the mental or physical health of a patient or the public. Negligent means the failure to use that degree of skill and learning ordinarily used under the same or similar circumstances by other pharmacy students.

Students must be familiar with and follow the rules and regulations of the School of Pharmacy, the University, and related professional organizations.

B. Pharmacy Professional Behavior

1. Nondiscrimination

It is against University regulations to discriminate on the basis of race, color, creed, sex, age, national origin, disability, or Vietnam Era Veterans status. The University has an AIDS policy statement consistent with state law that prohibits discrimination against persons with AIDS or who are HIV positive.

2. Representation

A pharmacy student shall accurately represent himself/herself to others including, but not limited to, colleagues, instructors, representatives of the University, patients, pharmacists and other members of the health care team.

Examples of misrepresentation include, but are not limited to the following:

- A pharmacy student shall never use the title of "pharmacist", as this clearly misrepresents the student’s position, knowledge, and authority.

- Use of fraud, deception, lies, or bribery in securing any certificate of registration or authority, diploma, permit or license issued, or in obtaining permission to take any examinations.

- Impersonation of any person holding a certificate of registration or authority, permit, license or allowing any person to use his/her certificate of registration or authority, permit, license, or diploma from any school.

- Forgery, alteration, or misuse of a patient’s medical records or knowingly furnishing false information to the other members of the health care profession and/or professional organizations.
3. Confidentiality

A pharmacy student shall respect the rights of patients, colleagues, and other health professionals, and shall safeguard patient confidences within the constraints of the law. The patient’s right to confidentiality in regard to his/her medical record, which includes confidentiality of personal and social history, is a fundamental tenet to medical care. Proprietary information from clerkship and/or externships shall not be shared.

The discussion in public of the problems of an identified patient, without the patient’s permission, by professional staff (including other students) violates patient confidentiality and is unethical. Under no circumstances can any medical record be removed from the institution. Photocopying of the entire record is never permitted for presentations or rounds; students are permitted to extract information, but not copy ‘wholesale’ parts of the chart. Names of patients should be omitted from any documents used for these presentations.

4. Disclosure

While the pharmacy student is a member of the patient care team and under faculty supervision, a pharmacy student shall continue to study, apply and advance scientific knowledge, make relevant information available to patients, colleagues, and the public, obtain consultation, and use the talents of other health professionals when indicated.

Sharing of medical information appropriately with a patient and colleagues involved in the care of the patient is a fundamental ethical requirement. The patient must be well informed to make health care decisions and work intelligently in partnership with the patient care team. Information that the patient needs for decision making shall be presented in terms the patient can understand. If, for some reason, the patient is unable to comprehend, there shall be disclosure to the patient’s authorized representative.

Failure of a pharmacy student to share medical information relevant to a patient with the patient and colleagues involved in the care of the patient is unethical. Providing inaccurate information with these individuals is also unacceptable.

5. Assessment of Personal Competence (Self-Evaluation)

Pharmacy students shall seek consultation and supervision whenever their ability to play their role in the care for a patient is inadequate because of lack of knowledge or experience.

Students are expected to respond to constructive criticism by appropriate modification of behavior.

It is unacceptable for a pharmacy student to dispense prescription medications or to prescribe therapies without supervision.
6. Professional Demeanor

The pharmacy student is expected to be thoughtful and professional when interacting with faculty, patients and their families, attending physicians, pharmacy preceptors, other students, and other members of the health care team and whenever his/her behavior may influence adversely the judgments of others about the professional school of University.

Students shall maintain a neat and clean appearance, and dress in attire that is generally accepted as professional by the patient populations served.

Inappropriate behavior includes, but is not limited to, the use of offensive language, gestures, or remarks. Attempting, directly or indirectly, by way of intimidation, coercion or deception, to obtain or retain a patient or discourage the use of a second opinion or consultation is not appropriate.

7. Conflict of Interest

If a conflict of interest arises, the moral principle is clear – the welfare of the patient must be, at all times, paramount. For example, gifts, hospitality, or subsidies offered by manufacturers and distributors of medical and pharmaceutical equipment/goods shall not be accepted if acceptance would influence the objectivity of clinical judgment.

8. Misconduct with Patients

The pharmacy student will not engage in romantic, sexual, or other nonprofessional behaviors with a patient – even upon the apparent request of a patient – while the pharmacy student is involved with the patient’s care.

9. Impairment

The pharmacy student will not use alcohol or drugs in ways that impair his/her ability to perform the work of the profession or results in compromised patient care. It is the responsibility of every pharmacy student to strive to protect the public from an impaired colleague and to assist that colleague whose capability is impaired because of alcohol or drug use.

10. Criticism of Colleagues

Professional relations among all members of the medical community shall be marked by civility. Scholarly contributions shall be acknowledged and each person shall recognize and facilitate the contributions of others to this community; slanderous comments and acts are not acceptable. Pharmacy students shall deal with professional, staff, and peer members of the health team in a considerate manner and with a spirit of cooperation.

It is unethical and harmful for a pharmacy student o disparage, without sufficient evidence, the professional competence, knowledge, qualifications, or services of a colleague to anyone. It is
also unethical to imply without reliable evidence – by word, gesture, or deed – that a patient has been poorly managed or mistreated by a colleague.

11. Teaching

It is incumbent upon those entering this profession to teach what they know of the science, art, and ethics of pharmaceutical care. It includes communicating clearly and teaching patients so that they are properly prepared to participate in their own care and in the maintenance of their health.
III. The University of Missouri Student Conduct Code

In addition to the conduct detailed in the preceding sections, a pharmacy student is subject to the University of Missouri Student Conduct Code, as administered by the Office of the Vice Chancellor for Student Affairs, except for provisions dealing with academic dishonesty, Section 200. 01 0 B. 1.

Conduct for which students are subject to sanctions falls into the following categories:

A. Forgery, alteration, or misuse of University documents, records or identification, or knowingly furnishing false information to the University.

B. Obstruction or disruption of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.

C. Physical abuse or conduct which threatens or endangers the health or safety of any person.

D. Attempted or actual theft of, damage to, or possession without permission of property of the University or of a member of the University community or of a campus visitor.

E. Unauthorized possession, duplication, or use of keys to any University facilities or unauthorized entry to or use of University facilities.

F. Violations of University policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.

G. Manufacture, use, possession, sale, or distribution of alcoholic beverages or any controlled substance without proper prescription or required license or as expressly permitted by law or University regulations.

H. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.

I. Failure to comply with directions of University officials acting in the performance of their duties.

J. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals.

K. Actual or attempted theft or other abuse of computer time, including but not limited to:
- Unauthorized entry into a file to use, read, or change the contents, or for any other purpose;
- Unauthorized transfer of a file;
- Unauthorized use of another individual’s identification and password;
• Use of computing facilities to interfere with the work of another student, faculty member, or University official;

• Use of computing facilities to interfere with normal operation of the University computing system; and

• Knowingly causing a computer virus to become installed in a computer system or file. Details of the policies, procedures, sanctions, and due process for violations of the University of Missouri Student Conduct Code are found in the University of Missouri-Kansas City General Catalogue and the student handbook.
School of Medicine Honor Codes

I. Preamble

Medicine is a profession characterized by 1) a prolonged specialized training in a body of knowledge and skills; 2) ethical principles; 3) a service orientation; and 4) judgment. The medical profession determines its own standards of education, training, licensure, and practice and has long subscribed to a body of ethical statements developed primarily for the benefit of the patient. As a potential future member of this profession, a medical student must recognize responsibility and an obligation not only to patients, but also to society, other health professionals, and self to behave in a manner compatible with the medical profession's standards of conduct.

One of the goals of a medical school is to educate a medical student during the transition to a professional life. The University of Missouri-Kansas City School of Medicine has an obligation to evaluate students pursuing the M.D. degree as thoroughly as possible for their cognitive abilities, their academic and professional knowledge and skills, their integrity, and their suitability for the practice of medicine. Accordingly, the Standards of Professional Conduct detailed in this document have been developed to guide the pre-professional behavior of medical students of the University of Missouri-Kansas City School of Medicine and to prepare the medical students to meet the ethical standards of the medical profession.

II. Standards of Professional Conduct

A. Professional Integrity

1. Honesty

A medical student shall deal honestly with people including, but not limited to, colleagues, instructors, representatives of the University, patients, attending physicians, and other members of the health care team. Medical students are expected to demonstrate honesty and integrity in all aspects of their interaction with patients and staff -- particularly in assuring accuracy and completeness of their part of the medical record. The medical student shall be willing to admit errors and must not mislead others or promote himself/herself at the patient's expense. The medical student shall strive to report, by utilizing the Honor Council Procedures for Violations of the Standards of Professional Conduct, those medical students deficient in character or competence, or who engage in fraud or deception.

The basic principle underlying all research is honesty. Scientists and medical students who participate in research have a responsibility to provide research results of the highest quality; to gather facts meticulously; to keep impeccable records of work done; to interpret results realistically, not forcing them into preconceived molds or models; and to report new knowledge through appropriate channels. Co-authors of research reports must be sufficiently acquainted with the work of their co-workers that they can personally vouch for the integrity of the study and validity of the findings, and must have been active in the research itself.
Examples of academic dishonesty include, but are not limited to, the following:

- **Cheating**
  1. use of any unauthorized assistance in taking quizzes, tests, or examinations;
  2. dependence upon the aid of sources beyond those authorized by the instructor in
     writing papers, preparing reports, solving problems, or carrying out other
     assignments;
  3. acquisition or possession without permission of tests or other academic material
     belonging to a member of the University faculty or staff;
  4. in any way giving assistance to others who are participating in any of the three
     preceding types of behavior; or,
  5. falsifying attendance records or other official documents.

- **Plagiarism**
  1. use by paraphrase or direct quotation of the published or unpublished work of
     another person without fully and properly crediting the author with footnotes,
     citations or bibliographical reference;
  2. unacknowledged use of materials prepared by another person or agency engaged
     in the selling of term papers or other academic materials;
  3. unacknowledged use of original work/material that has been produced through
     collaboration with others without release in writing from collaborators.

- **Sabotage**
  1. Unauthorized interference with, modification of, or destruction of the work or
     intellectual property of another member of the University community.

Examples of dishonesty related to clinical practice include, but are not limited to, the following:

- **Falsification of Patient's Medical Record**
  Writing progress notes regarding the patient's status, including, but not limited to, clinical
  observations or results in the patient's chart when the medical student has not seen or
  evaluated the patient, or using incorrect times of data entry.

- **Falsification of Patient's Medical Information**
  Reporting medical information such as physical examination findings, lab values, test
  results, and any other relevant patient information to other students, residents, attending
  physicians, the patient, the patient's family, or other relevant medical personnel that has
  been fabricated by the medical student.

2. **Responsibility**

A medical student must acquire competences with the appropriate concepts, knowledge, and
skills which the faculty determine to be essential. These competences shall be utilized to care for
the sick and to promote the health and welfare of society. A medical student shall recognize a
responsibility to participate in activities contributing to an improved community.

Medical students in the care of patients must not be harmful, dangerous, or negligent to the
mental or physical health of a patient or the public. Negligent means the failure to use that degree
of skill and learning ordinarily used under the same or similar circumstances by other medical students.

Medical students must pay tuition and other University fees, such as the Quarterly Profile Exam fee, on time. Medical students must complete required forms of evaluation, degree forms, examination applications, etc. on time.

Students must be familiar with and follow the rules and regulations of the School of Medicine, the University, and related professional organizations.

B. Medical Professional Behavior

1. Nondiscrimination

A medical student shall be dedicated to providing supervised competent medical service with compassion, respect for human dignity, and without discrimination. It is against University regulations to discriminate on the basis of race, color, creed, sex, age, national origin, disability, or Vietnam Era Veterans status. The University has an AIDS policy statement consistent with state law that prohibits discrimination against persons with AIDS or who are HIV positive.

2. Representation

A medical student shall accurately represent himself/herself to others including, but not limited to, colleagues, instructors, representatives of the University, patients, attending physicians, and other members of the health care team. Examples of misrepresentation include, but are not limited to, the following:

   1. A medical student shall never use the title of "Doctor" or M.D., as this clearly misrepresents the student's position, knowledge, and authority.
   2. Use of fraud, deception, lies, or bribery in securing any certificate of registration or authority, diploma, permit or license issued, or in obtaining permission to take any examinations.
   3. Impersonation of any person holding a certificate of registration or authority, permit, license or allowing any person to use his/her certificate of registration or authority, permit, license or diploma from any school.
   4. Forgery, alteration, or misuse of a patient's medical records or knowingly furnishing false information to the medical team and/or professional organizations.

3. Confidentiality

A medical student shall respect the rights of patients, colleagues, and other health professionals, and shall safeguard patient confidences within the constraints of the law. The patient's right to confidentiality in regard to his/her medical record, which includes confidentiality of personal and social history, is a fundamental tenet to medical care.
The discussion in public of the problems of an identified patient, without the patient's permission, by professional staff (including medical students) violates patient confidentiality and is unethical. Under no circumstances can any medical record be removed from the institution. Photocopying of the entire record is never permitted for presentations or rounds; students are permitted to extract information, but not copy "wholesale" parts of the chart. Names of patients should be omitted from any documents used for these presentations.

4. Disclosure

While the medical student is a member of the medical team and under faculty supervision, a medical student shall continue to study, apply and advance scientific knowledge, make relevant information available to patients, colleagues, and the public, obtain consultation, and use the talents of other health professionals when indicated. Sharing of medical information appropriately with a patient and colleagues involved in the care of the patient is a fundamental ethical requirement. The patient must be well informed to make health care decisions and work intelligently in partnership with the medical team. Information that the patient needs for decision making shall be presented in terms the patient can understand. If, for some reason, the patient is unable to comprehend, there shall be disclosure to the patient's authorized representative.

Failure of a medical student to share medical information relevant to a patient with the patient and colleagues involved in the care of the patient is unethical. Providing inaccurate information with these individuals is also unacceptable.

5. Assessment of Personal Competence (Self-Evaluation)

Medical students shall seek consultation and supervision whenever their ability to play their role in the care for a patient is inadequate because of lack of knowledge or experience. Students are expected to respond to constructive criticism by appropriate modification of behavior.

It is unacceptable for a medical student to attempt procedures or to prescribe therapies without supervision.

6. Professional Demeanor

The medical student is expected to be thoughtful and professional when interacting with patients and their families, attending physicians, supervising residents, and other medical students, and whenever his/her behavior may influence adversely the judgments of others about the professional school or University.

Students shall maintain a neat and clean appearance, and dress in attire that is generally accepted as professional by the patient populations served. Inappropriate behavior includes, but is not limited to, the use of offensive language, gestures, or remarks. Attempting, directly or indirectly, by way of intimidation, coercion or deception, to
obtain or retain a patient or discourage the use of a second opinion or consultation is not appropriate.

7. Informed Consent

Students are to understand the physician's obligation to obtain informed consent from patients, but are not responsible for obtaining it for a physician. Simply, it is the physician's responsibility to ensure that the patient or his/her surrogate be appropriately informed as to the nature of the patient's medical condition, the objectives of proposed treatments, treatment alternatives, and risks involved. The patient's or surrogate's concurrence must be obtained without coercion.

8. Conflict of Interests

If a conflict of interest arises, the moral principle is clear -- the welfare of the patient must be, at all times, paramount. For example, gifts, hospitality, or subsidies offered by manufacturers and distributors of medical and pharmaceutical equipment/goods shall not be accepted if acceptance would influence the objectivity of clinical judgement.

9. Misconduct with Patients

The medical student will not engage in romantic, sexual, or other non-professional behaviors with a patient -- even upon the apparent request of a patient -- while the medical student is involved with the patient's care.

10. Impairment

The medical student will not use alcohol or drugs in ways that impair his/her ability to perform the work of the profession or results in compromised patient care. It is the responsibility of every medical student to strive to protect the public from an impaired colleague and to assist that colleague whose capability is impaired because of alcohol or drug use.

In some instances a medical student's alcohol or drug problem may also be referred to the AIMS Council. However, consideration by the AIMS Council does not remove the medical student's obligation to comply with these Standards of Professional Conduct or the University's Student Conduct Code.

11. Criticism of Colleagues

Professional relations among all members of the medical community shall be marked by civility. Scholarly contributions shall be acknowledged and each person shall recognize and facilitate the contributions of others to this community; slanderous comments and acts are not acceptable. Medical students shall deal with professional, staff, and peer members of the health team in a considerate manner and with a spirit of cooperation.

It is unethical and harmful for a medical student to disparage, without sufficient evidence, the professional competence, knowledge, qualifications, or services of a colleague to anyone. It is
also unethical to imply without reliable evidence -- by word, gesture, or deed -- that a patient has been poorly managed or mistreated by a colleague.

12. Teaching

The word "doctor" (for the Latin "docere" -- to teach) implies a responsibility to share knowledge and information with colleagues and patients. It is incumbent upon those entering this profession to teach what they know of the science, art, and ethics of medicine. It includes communicating clearly and teaching patients so that they are properly prepared to participate in their own care and in the maintenance of their health.
III. University of Missouri Student Conduct Code

In addition to the conduct detailed in the preceding sections, a medical student is subject to the University of Missouri Student Conduct Code, as administered by the Office of the Vice Chancellor for Student Affairs, except for provisions dealing with academic dishonesty, Section 200.010 B.1.

Conduct for which students are subject to sanctions falls into the following categories:

A. Forgery, alteration, or misuse of University documents, records or identification, or knowingly furnishing false information to the University.

B. Obstruction or disruption of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.

C. Physical abuse or conduct which threatens or endangers the health or safety of any person.

D. Attempted or actual theft of, damage to, or possession without permission of property of the University or of a member of the University community or of a campus visitor.

E. Unauthorized possession, duplication, or use of keys to any University facilities or unauthorized entry to or use of University facilities.

F. Violation of University policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.

G. Manufacture, use, possession, sale, or distribution of alcoholic beverages or any controlled substance without proper prescription or required license or as expressly permitted by law or University regulations.

H. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.

I. Failure to comply with directions of University officials acting in the performance of their duties.

J. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals.

K. Actual or attempted theft or other abuse of computer time, including but not limited to: a) unauthorized entry into a file to use, read, or change the contents, or for any other purpose; b) unauthorized transfer of a file; c) unauthorized use of another individual's identification and password; d) use of computing facilities to interfere with the work of another student, faculty member, or University official; e) use of computing facilities to interfere with normal operation of the University computing system; and f) knowingly causing a computer virus to become installed in a computer system or file.
Honor Council Procedures for Violations of the Standards of Professional Conduct

University of Missouri-Kansas City School of Medicine

I. Jurisdiction of the Honor Council

The Honor Council shall be concerned with incidents of alleged violations by University of Missouri-Kansas City School of Medicine students of the School's Standards of Professional Conduct, Sections II.A and II.B. Violations of Section III will be referred to the Office of the Vice Chancellor for Student Affairs. The standards identify areas of conduct which are judged unacceptable for individuals either who are in or aspire to the profession of medicine. The Standards of Professional Conduct are published in the Council on Evaluation Policy Manual and Guidelines document of the School of Medicine. It is distributed to all newly accepted students during orientation. When a medical student has been charged with one or more acts of misconduct according to these standards, the Honor Council shall adhere to the following procedures detailed herein. The Honor Council shall have the authority to recommend sanctions upon any student appearing before the Council. The disciplinary proceedings described are not to be construed as judicial trials. Care shall be taken, however, to comply as fully as possible with the spirit and intent of these procedural safeguards.

II. Organization of the Honor Council

1. Composition

The Honor Council voting members shall consist of the Chair representing the Dean's Office, five faculty/staff members (1 Docent, 1 Basic Scientist, 2 Clinical Scientists, and 1 Humanities/Social Sciences representative), and one student member (1 Years III-VI). Four members constitute a quorum. Two nonvoting Honor Council staff, the Council Coordinator and the Administrative Assistant, assist the Chair in investigations and generation of reports and are present at the hearings to take minutes.

2. Eligibility and Appointment

Faculty/staff, and student members shall be appointed to the Honor Council by the Dean of the School of Medicine.

3. Chair

The Chair shall count as one member of the Honor Council and shall be entitled to vote on all matters before the Council.
4. Time of Appointment and Term of Office

The Chair and faculty/staff members of the Honor Council shall serve for the duration of their appointments by the Dean. The student member of the Honor Council shall serve for one year. A student is ineligible to continue as a member of the Honor Council if he/she is placed on academic or disciplinary probation, or if for any other reason his/her continued membership on the Council may not be in the best interest of the School of Medicine as determined by the Dean.

III. Procedures for Report of Violation, Investigation, Informal Disposition, and Notice

A. Report of Violation

An alleged violation of the Standards of Professional Conduct should be reported to the Chair or his/her designee of the Honor Council as soon as possible after discovery of the incident.

B. Preliminary Procedures and Investigation

The Chair of the Honor Council or his/her designee shall investigate any reported student misconduct before initiating formal conduct procedures. The reporter will be requested to meet with the Chair or his/her designee to discuss the alleged violation.

The Chair is responsible for notifying, in writing, the accused student of the charge brought against him/her prior to the commencement of the investigation. In addition, the student charged with misconduct shall receive a copy of these Procedures for Violations of the Standards of Professional Conduct along with the written notice. The Chair shall meet with the accused student to give the student the opportunity to present a personal version of the incident or occurrence.

C. Informal Disposition

After conducting an investigation, the Chair or his/her designee shall provide a written report to the Dean, the accused student, and the Honor Council members. The Chair shall have the authority to dismiss a charge that is determined unfounded or to impose appropriate sanctions and shall fix a reasonable time within which the student shall accept or reject a proposed informal disposition.

A failure of the student either to accept or reject within the time fixed shall be deemed to be an acceptance and, in such event, the proposed disposition shall become final upon expiration of such time.

If the student rejects informal disposition, it must be in writing and shall be forwarded to the Honor Council.

The Chair may refer cases to the Honor Council for formal investigation and hearing without first offering informal disposition.
The Dean or his/her designee may at any time temporarily suspend or deny readmission to a student from the School of Medicine pending formal procedures when the Dean or his/her designee finds and believes from available information that the presence of a student on campus would seriously disrupt the School of Medicine or constitute a danger to the health, safety, or welfare of members of the School of Medicine community. The appropriate procedure to determine the future status of the student will be initiated within seven calendar days.

D. Notice of Hearing

Upon completion of the investigation, when a student rejects informal disposition or the charge justifies a formal hearing, in the judgment of the Honor Council Chair, the Chair will schedule a formal hearing as soon as possible.

The reporter, witnesses, and accused student will be given written notice of the hearing by certified mail or personal delivery. The notice shall set forth the date, time, and place of the alleged violation, the conduct for inquiry, the date, time, and place of the hearing before the Council, request for attendance of the parties involved, and a reference for the accused student to the Rights of the Accused Student Upon Hearing which are outlined in these Procedures.

Notice by certified mail may be addressed to the last address currently on record with the School of Medicine. Failure by the accused student to have a current correct local address on record with the School of Medicine shall not be construed to invalidate such notice.

The notice shall be given at least seven (7) consecutive calendar days prior to the hearing, unless a shorter time be fixed by the Chair for good cause.

Any request for continuance shall be made in writing to the Chair who shall have the authority at his/her discretion to postpone the hearing if he/she determines the request is timely and made for good cause. The Chair shall notify the Honor Council members, the accused student, the reporter, the witnesses, and any other relevant individuals of the new date for the hearing.

If the accused student fails to appear at the scheduled time, the Honor Council may hear and determine the matter in the student's absence.

IV. Procedure for Honor Council Hearing

Rights of the Honor Council

The Honor Council shall have the right to:

- hear together cases involving more than one student which arise out of the same act of misconduct, but in that event shall make separate findings and determinations for each student;
- permit a stipulation of facts by the Honor Council member who performed the investigation and the student involved;
o permit the incorporation in the record by a reference of any document, affidavit, or other material produced and desired in the record by the School of Medicine or the student charged;
o question witnesses or challenge other evidence introduced by either the School of Medicine or the student at any time;
o hear from the Council Chair about dispositions made in similar cases and any dispositions offered to the student appearing before the Council;
o call additional witnesses or require additional investigation;
o dismiss any action at any time or permit informal disposition as otherwise provided;
o permit or require at any time, within a reasonable time as determined by the Council, amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Council before final determination of the case; provided, however, that in such event the Council shall grant to the student or the School such time as the Council may determine reasonable under the circumstances to answer or explain such additional matters; and,
o dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Council Chair on any procedural question or request of the Chair for order.

A. Rights of the Accused Student Upon Hearing

A student scheduled to appear before the Honor Council pursuant to formal notice of charges and disciplinary hearing shall have the right to:

o submit a written response to the charge outlined in the Notice before the scheduled hearing is to commence;
o request in advance of the scheduled hearing a review of any materials contained in his/her hearing file which will be kept in the Council on Evaluation Office;
o submit a written request for the identities of witnesses to be called to testify before the Council;
o be present at the hearing;
o have an adviser or counselor appear with him/her and to consult with such an adviser or counselor during the hearing; however, the adviser/counselor will not be allowed to question witnesses and/or members of the Council;
o hear or examine evidence presented to the Honor Council against him/her;
o question witnesses present who are testifying against him/her at the hearing;
o present evidence by witness, affidavit, written report, other memoranda, photographs, drawings, and any other relevant evidence of any defense the student desires;
o make any statement to the Honor Council in mitigation or explanation of the conduct in question;
o remain silent to avoid self-incrimination;
o be informed in writing of the findings and any decisions imposed by the Honor Council, Coordinating Committee, and the Dean; and,
o appeal the decision and/or disposition to the Chancellor, as herein provided.
B. Rights of Witnesses

Witnesses shall be notified of the scheduled time, date, and location of the hearing. Witnesses shall bring with them whatever documentation is requested. Failure of a student witness to appear, without good cause, is a violation of the Standards of Professional Conduct.

C. Record of Hearing

All proceedings of the Honor Council are to be held in the strictest confidence by the members and all other persons involved. The hearings shall be audio taped, and written minutes are also recorded. The notice, exhibits, hearing record, verdict, and disposition of the Honor Council shall become the "Record of the Case". This official document shall be filed under strictest security in the permanent records of the Evaluation Council Office. The record shall be accessible at reasonable times and places to both the University and the student for the purpose of review or appeal.

D. Conduct of the Hearing

The Honor Council Chair shall preside at the hearing, call the hearing to order, call the roll of the Honor Council members in attendance, ascertain the presence or absence of the student charged with misconduct, read the Notice of Hearing and charge and verify the receipt of notice of charge by the student, report any continuances requested or granted, establish the presence of any adviser or counselor of the student, call to the attention of the student charged and the adviser any special or extraordinary procedures to be employed during the hearing, and permit the student to make suggestions of or objections to any procedures for the Honor Council to consider.

All requests to address the Council shall be addressed to the Chair. The Chair will rule on all requests and points of order and may consult with Council's legal adviser prior to any ruling. The Chair's ruling shall be final, and all participants shall abide thereby, unless the Chair shall present the question to the Council at the request of a member of the Council, in which event the ruling of the Council by majority vote shall be final. Rules of common courtesy and decency shall be observed at all times. An adviser or counselor may be permitted to address the Council at the discretion of the Chair. An adviser or counselor may request clarification of a procedural matter or object on the basis of procedure at any time by addressing the Chair after recognition.

Opening Statements:

1) The Honor Council Chair or his/her designee shall make opening remarks outlining the general nature of the case and testify to any facts the investigation has revealed. 2) The accused student may make an opening statement to the Council about the charge at this time or at the conclusion of the School of Medicine's presentation.

School of Medicine Evidence:
1) School of Medicine witnesses are to be called by the Chair of the Honor Council and identified or written reports of evidence are introduced as appropriate. 2) The Council may question witnesses at any time. 3) The student may question witnesses or examine evidence at the conclusion of the School of Medicine's presentation.

Student Evidence:

1) The student shall have the opportunity to make a statement to the Honor Council about the charge. 2) The student may present evidence through witnesses or written memoranda. 3) The Council may question the student or witnesses at any time.

Rebuttal Evidence:

The Honor Council may permit the School of Medicine or the student to offer a rebuttal of the other's presentation.

If it appears that essential testimony is unavailable, or that for other good cause the hearing should be deferred, the Council may continue, recess or discontinue the hearing without prejudice.

V. Determination of the Honor Council

Following the hearing, the Council shall promptly deliberate in closed session out of the presence of the student charged. Determination is to be made regarding both the validity of the misconduct charge and the discipline, if any, to be imposed.

A. Violation of the Standards of Professional Conduct

The Honor Council shall determine if the evidence presented in the hearing supports the charge of violation of the Standards of Professional Conduct. The Council shall render a decision, by simple majority vote, of whether a violation has been committed by the accused. Each charge of misconduct, if there are more than one, shall be considered individually and/or collectively at the discretion of the Council.

B. Discipline Imposed

The Honor Council shall determine the discipline to be imposed, if any, based upon its deliberations. One of the following forms of discipline is to be recommended by means of simple majority vote of the Council members. Where there are multiple violations, there can be separate sanctions for each violation. The sanctions include, but are not limited to, the following:

- **No Disciplinary Action.** Given when the student is not found in violation of the Standards of Professional Conduct.
- **Warning.** A written reprimand to the student that the student has violated the Standards of Professional Conduct. A copy is to be placed in the student's file.
- **Probation.** A written reprimand to the student for violation of the Standards of Academic Conduct that includes a designated period of time, the probability of more severe sanctions if the student violates any institutional regulation(s) during the probationary period, and subject to any appropriate terms or conditions, such as loss of privileges, restitution, and discretionary assignments.

- **Suspension.** An involuntary separation of the student from the School of Medicine for a specified period of time or until a special conditions have been met, with a statement whether suspension should relate back to the date of the offense, begin at the time imposed, or begin at a date specified in the future. At the conclusion of the period of suspension, the suspended student is automatically returned to student status. Conditions for readmission may be specified.

- **Dismissal.** An involuntary separation from the School of Medicine for an indefinite period of time. The order of dismissal may specify a date before which the faculty will not consider a petition for readmission from the dismissed student.

- **Expulsion.** Permanent separation of the student from the School of Medicine.

The above sanctions apply to the status of the accused student in the School of Medicine. Any sanction impacting a student's enrollment status and/or privileges will be forwarded to the Vice Chancellor for Student Affairs or designee for information purposes.

An oral presentation of the Council's findings and recommendations is permitted following the hearing, but a written document including findings of fact, verdict, and recommended disposition shall be completed as soon as possible after the hearing. This Final Report of the Council shall be submitted to the Coordinating Committee, the Dean, and the Office of the Vice Chancellor for Student Affairs.

**VI. Decision of the Coordinating Committee**

The findings and determination of the Honor Council serve as recommendations to the Coordinating Committee and to the Dean of the School of Medicine. The Coordinating Committee, chaired by the Associate Dean for Academic Affairs and composed of members detailed in The Academic Plan for the School of Medicine, reviews the charge of misconduct, the findings of fact, the decision of the Council, and the recommended discipline to be imposed from the Honor Council.

After deliberation and careful consideration, the Coordinating Committee approves, by simple majority vote, one of the following actions: 1) to sustain the recommendations of the Honor Council; 2) to amend the recommendations of the Honor Council to another type of sanction; 3) to remand the Honor Council's recommendations; or, 4) to reverse the Honor Council's recommendations.

The findings and determinations of the Honor Council and the Coordinating Committee shall be transmitted to the Dean in writing within seven (7) consecutive calendar days following the Coordinating Committee meeting. A copy of this recommendation shall also be transmitted to the accused student by certified mail or personal delivery in the indicated time frame.
VII. Decision of the Dean

Upon receipt of the documents from the Honor Council and the Coordinating Committee, the Dean shall review the entire record that includes the following: 1) formal notice of the charges; 2) minutes of the Honor Council hearing; 3) written findings of the Honor Council and its recommendations to the Coordinating Committee; and 4) written decision of the Coordinating Committee concerning the sanction passed.

The Dean will, within a reasonable amount of time, make a decision to either affirm, amend, or reverse the Coordinating Committee's sentence, or remand the Coordinating Committee for further proceedings.

The Dean shall notify the student in writing by certified mail or personal delivery of his/her final decision. Copies of the letter will be sent to the Honor Council Chair, the Coordinating Committee Chair, and the Evaluation Council Office for placement in the student's file and in the official hearing file.

VIII. Right of Appeal

When a recommendation from the Honor Council and the Coordinating Committee is made for some form of disciplinary action other than "none", and this is upheld by the Dean, or if a recommendation of "no disciplinary action" is revised to one of greater severity by the Dean, the student may appeal such decision to the Chancellor or his/her designated representative by filing written notice of appeal with the Chancellor within ten (10) consecutive calendar days after notification of the decision of the Dean. A copy of the Notice of Appeal will also be given by the student to the Dean of the School of Medicine at the time of filing. The student may file a written memorandum for consideration by the Chancellor with the Notice of Appeal.

The Chancellor or his/her designated representative shall review the full record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify the Dean and the student in writing of the decision on the appeal. The action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

Status during Appeal: In cases of suspension, dismissal or expulsion where a Notice of Appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not disrupt the University or constitute a danger to the health, safety or welfare of the University community. In such event, however, any final disciplinary action imposed shall be effective from the date of the action of the Dean.

IX. Status of the Standards of Professional Conduct

Amendments to the Standards of Professional Conduct and/or Honor Council Procedures for Violations may be proposed by petition of any twenty-five members of the student body, the Honor Council on its own motion, or the faculty.
A proposed amendment in the Standards of Professional Conduct and/or Honor Council Procedures for Violations must be approved by the Honor Council, the Coordinating Committee, the Dean, the Chancellor, and the Board of Curators.

The Standards of Professional Conduct and/or Honor Council Procedures for Violations may be terminated at any time by action under the general amending procedure.

All students in the School of Medicine are subject to the jurisdiction of the Standards of Professional Conduct and Honor Council Procedures for Violations upon enrollment.

To insure their knowledge of the Standards of Professional Conduct and Honor Council Procedures for Violations, the presentation of these documents shall be an integral part of the orientation of newly accepted students to the School of Medicine.
School of Dentistry Honor Codes

Standards of Professional Conduct
(Approved by the Faculty of the School of Dentistry: 9/12/2002, Curator approval 4/2004)

Definition: In this document, “student” shall refer to any person having once been admitted to the School of Dentistry who has not completed a course of study and who intends to or does continue a course of study in or through the School of Dentistry. For the purpose of these rules, student status continues whether or not the University's academic programs are in session.

Students at the University of Missouri at Kansas City School of Dentistry are seeking special knowledge, skills, and privileges. The confirmation of a professional degree, inferring the acquisition of knowledge and privileges, places the graduate of this institution in a unique position of assuming direct responsibility for health issues of those persons and institutions who place their trust in the University and the dental and dental hygiene professions. It is a demonstration of, and commitment to, special knowledge, protection of privileges, and assumption of responsibility and trust that, by definition, delineates a professional. Therefore, those who would aspire to receive the confirmation of a professional degree are expected to provide satisfactory evidence that exceeds knowledge and technical competence. Evidence that the well-being of patients, trust of society and respect of colleagues is a primary goal must be demonstrated. Accordingly, students must subscribe to principles of ethics and a code of professional conduct that gives testimony to their commitment and ability to deserve the privileges and trust with which society and their patients will honor them. This document serves as a guide for students.

The Standards of Professional Conduct are drawn from the Principles of Ethics and Code of Professional Conduct of the American Dental Association, and the American Dental Hygienists’ Association Code of Ethics. The former recognizes that students are under the supervision of graduate dentists and dental hygienists and other faculty during interactions with patients. Students should aspire to meet the high ideals of their professions which may exceed their legal duties, but must meet the minimum standards expressed in the School of Dentistry’s Code of Professional Conduct.

A. Dental and dental hygiene students must achieve and consistently demonstrate acceptable levels of personal hygiene and dress.

B. Dental and dental hygiene students must achieve and consistently demonstrate concern for patients, peers, and others. Dental and dental hygiene health care providers have a duty to ensure:

1. Patients are treated according to their desires and must be included in treatment decisions.

2. Patient confidentiality in the entire range of the provider-patient relationship which includes dental records.

3. That no harm or potential harm is done to the patient either through intent, ignorance, lack of
preparation for the patient encounter, lack of skill, personal impairment of any kind.

4. That no patient is “abandoned” which is defined as discontinuance of care without just cause and without giving the patient adequate notice and the opportunity to obtain the services of another provider.

5. That the patient’s welfare (i.e. the provision of competent and timely delivery of dental care within the bounds of clinical circumstances as presented by the patient such as needs, desires and values) is paramount and takes precedence above all else. This also includes the obligation to a) identify and report perioral signs of abuse and neglect and to consult with faculty to report suspected cases to proper authorities as required by law; and, b) report instances of faulty treatment whether intentional or not, to the appropriate faculty member.

6. That all people including patients, staff, faculty and all other individuals are treated fairly, respectfully, and without prejudice.

7. All standards and requirements of patient care established by the School of Dentistry are followed.

C. Dental and dental hygiene students’ behavior must exemplify the highest moral and ethical standards. The following represents conduct that is incompatible with these standards:

1. Any behavior that tends to gain an unfair advantage for any student in an academic matter. This includes, but is not necessarily limited to, the following guidelines:

   a. No student shall, during an examination have, use or solicit any unauthorized information or material (written or oral), copy from another student’s paper or discuss the examination with any other person.

   b. No student shall during an examination knowingly give any unauthorized aid to another student.

   c. No student shall acquire by any means knowledge of the contents of an examination yet to be given.

   d. No student shall fraudulently claim for credit any classroom, clinical, laboratory, or other procedure or assignment performed by an unauthorized person, including a fellow student.

   Anyone who has reasonable cause to believe that a student has acted unethically is obligated to bring the matter to the attention of the Assistant Dean for Student Programs or his/her designee who will follow the process identified in the Preliminary Procedures section of the UMKC School of Dentistry Honor Council Due Process Procedures for Violations of the Standards of Professional Conduct, to determine whether there has been a violation and whether charges should be brought.
School of Nursing Honor Codes

Honor Code Procedures for Violations of the Standards of Professional and Ethical Behavior
University of Missouri-Kansas City School of Nursing

I. Jurisdiction of the School of Nursing

The School of Nursing (SON) shall have jurisdiction over incidents of alleged violations of the University of Missouri-Kansas City School of Nursing’s Standards of Professional and Ethical Behavior, Sections IIA and IIB by students accepted into degree programs in the School of Nursing while at the School of Nursing or enrolled in any nursing course or on clinical rotations at affiliated institutions. Alleged violations of the University of Missouri Student Conduct Code as described in Section III will be referred to the Office of the Vice Chancellor for Student Affairs. The Standards of Professional and Ethical Behavior identify areas of conduct which are judged unacceptable for individuals who are either in or aspire to be in the profession of nursing. The Standards of Professional and Ethical Behavior and these Procedures will be distributed to all newly enrolled students during orientation. When a nursing student has been charged with one or more acts of misconduct according to these standards, the Honor Council shall adhere to the following procedures detailed herein.

The Honor Council shall have the authority to recommend sanctions upon any accused appearing before the Council. The disciplinary proceedings described are not to be construed as judicial trials. Care shall be taken, however, to comply as fully as possible with the spirit and intent of these procedural safeguards.

II. Sanctions

The following sanctions may be imposed upon any nursing student found to have violated Sections IIA and IIB of the University of Missouri – Kansas City School of Nursing Standards of Professional and Ethical Behavior:

Warning – A notice in writing that the student is violating or has violated the Standards of Professional and Ethical Behavior.

Probation – A written reprimand for violation of specific provisions of the Standards of Professional and Ethical Behavior that includes a designated period of time and the probability of more severe sanctions if the student violates any institutional regulation(s) during the probationary period.

Loss of Privileges - Denial of specified privileges in the School of Nursing for a designated period of time. Discretionary Sanctions. Work assignments in the School of Nursing, service to the School of Nursing, or other related discretionary assignments in the School of Nursing.

Suspension from the School of Nursing – An involuntary separation from the School of Nursing for a specified period of time after which the student is eligible to return. Conditions for
readmission may be specified.

Dismissal from the School of Nursing – An involuntary separation from the School of Nursing for an indefinite period of time. It does not imply or state a minimum separation time.

Expulsion from the School of Nursing – Permanent separation from the School of Nursing.

III. Organization of the Honor Council

A. Composition

The Honor Council members shall consist of the Chair; three voting faculty members, one representing each program, BSN, MSN, PhD (3 votes); five student members, 4 from the BSN program and one from the MSN or PhD program. Five members or their alternates (2 faculty, excluding the chair, and three students) constitute a quorum. An assigned staff member will assist the Chair in generation of reports and will be present at the hearings to take minutes.

B. Eligibility and Appointment

Faculty members Voting members of the faculty who have no more than a 50% administrative appointment are eligible to serve as chair or members of the honor council. Voting members of the School of Nursing Faculty Forum shall elect the chair of the Honor Council and the undergraduate and graduate faculty representatives. Alternates for each position will also be elected.

Student members In order to be eligible for election to the Honor council, students must be in good standing within the School. A student who is placed on academic or disciplinary probation is ineligible for service on the Honor council. In addition, a student may be determined ineligible for service if his or her membership on the Council is assessed by the Chair not to be in the best interest of the School.

Each BSN class shall elect their student representative and their alternates. The graduate representative and alternate shall be elected from among students in all SON graduate programs.

C. Time of appointment and Term of Office

All members shall serve a one-year appointment, with the exception of the chair who will serve 2 years. Members may be serve more than one term if they are re-elected in subsequent years. Members will serve until they resign or a new member is voted into their position.

Election of student members shall be held on an annual basis at the beginning of the academic year, no later than September 15.

Election of faculty will occur at the last spring faculty forum meeting of the year for the next academic year during regular School committee elections. Faculty vacancies are filled by special election.
After fall elections, a preliminary meeting of all members (including the chair) will be held within two weeks in order to discuss the role and function of the Honor Council.

D. Hearing Panel of the Honor Council

All faculty representatives including alternate and the three most senior students not in the accused student’s class will serve as a hearing panel for the honor code violation. A chair of the Hearing Panel will be elected by simple majority vote of the members of the panel.

Voting by the hearing panel will take place by secret ballot.

The chair of the hearing panel will not vote except in case of a tie among the rest of the hearing panel in which case, the chair shall vote to break the tie.

Proxy votes will not be allowed.

E. Primary Administrative Liaison (PAL)

A primary administrative liaison (PAL) will be appointed by the Dean for a minimum of a two year term. The PAL is not eligible to serve as a member of the Honor Council while serving as the PAL. The PAL and the Chair, when possible, should be serve overlapping terms. The PAL will draft the charge and represent the School of Nursing in all cases.

IV. Procedures for Report of Violation, Investigation, Informal Disposition, and Notice

A. Report of Violation

An alleged violation of the Standards of Professional and Ethical Behavior should be reported to the PAL of the Honor Council or designee as soon as possible after discovery of the incident. The PAL shall inform the chair and Honor Council of the alleged violation within one week if a hearing will be required. The Chair shall notify the Dean of all accusations. If the PAL determines that no violation occurred then the Dean and the Honor Council will be informed via an annual report submitted at the end of each academic year.

B. Preliminary Procedures and Meeting

The PAL shall determine whether the allegations fall within Sections IIA or IIB, or Section III of the Standards of Professional and Ethical Behavior, and shall refer any allegations of violations of Section II to the UMKC Office of Student Affairs. The PAL shall investigate any reported violation of Sections IIA or IIB before initiating formal conduct procedures.

The PAL will notify the accused, in writing by certified mail, of the allegations brought against him/her prior to the commencement of the preliminary meeting between the PAL and the student. In addition, the student shall receive a copy of these Procedures for Violations of the Standards of Professional and Ethical Behavior along with the written notice. The PAL shall
meet with the accused student to give the student the opportunity to present a personal version of the incident or occurrence.

Following the investigation the PAL shall determine the appropriate preliminary outcome: no formal charge of misconduct, informal disposition, or formal disposition involving an honor council meeting. The PAL will notify the Chair and the Dean of the outcome as required in section IV A.

C. Informal Disposition

The PAL shall have the authority to propose appropriate sanctions to the accused student and within a week the student shall accept or reject a proposed informal disposition.

A failure of the student either to accept or reject the informal disposition within the 10 working days shall be deemed to be an acceptance and, in such event, the proposed disposition shall become final upon expiration of such time.

If the student rejects informal disposition, it must be in writing and the matter shall then be forwarded to the Honor Council for a formal hearing.

D. General Statement of Procedures

A student charged with a breach of the Standards of Professional and Ethical Behavior is entitled to a written notice of the charge against him or her and a formal hearing unless the matter is disposed of under the rules for informal disposition. Honor Code Procedures are not to be construed as judicial trials and need not wait for legal action before proceeding; however, care shall be taken to comply as fully as possible with the spirit and intent of the procedural safeguards set forth herein. The University of Missouri Office of the General Counsel shall be legal adviser to the Committee and to the PAL.

E. Notice

The PAL shall initiate formal proceedings by arranging with the chair to call a meeting of the Honor Council and by giving written notice to the accused student by email and by certified mail to the student’s last address currently on record with the Office of the Registrar. Failure of the student to have a current correct local address on record shall not be construed to invalidate such notice. The notice shall set forth the date, time and place of the alleged violation and the date, time and place of the hearing before the Honor Council.

F. Conflicts of Interest

Any member of the Honor Council may recuse him or herself if he or she believes he or she has a conflict of interest. The PAL or the accused student may raise the question of a member’s Conflict of Interest at the initial meeting of the Honor Council to hear the charge against the student, and the Chair will determine whether the member should be recused. The member will be replaced by his or her alternate. If both the member and the alternate are recused, the
appropriate electing body will chose a second alternate for this case only. [See Section IIB for election procedures.]

G. Temporary Suspension

The Dean or his/her designee may at any time temporarily suspend or deny readmission to a student from the School of Nursing pending formal procedures when the Dean or his/her designee finds and believes from available information that the student would seriously disrupt the School of Nursing or constitute a danger to the health, safety or welfare of members of the School of Nursing Community. The appropriate procedure to determine the future status of the student will be initiated within seven calendar days.

V. Procedure for Honor Council Hearing

A. Rights of the Honor Council

· Hear together cases involving more than one accused student which arise out of the same transaction or occurrence, but in that event shall make separate findings and determinations for each accused;

· Permit a stipulation of facts by the involved accused and the PAL;

· Permit the incorporation in the record by a reference of any documentation produced and desired in the record by the PAL or the accused student;

· Question witnesses or challenge other evidence introduced by either the PAL or the accused student at any time;

· Hear from the PAL about dispositions made in similar cases and any dispositions offered to the student appearing before the Committee;

· Call additional witnesses or require additional investigation; · Dismiss any action at any time;

· Permit or require at any time amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Council before final determination of the case; provided, however, that in such event the Council shall grant to the accused or the PAL such time as the Council may determine reasonable under the circumstances to answer or explain such additional matters; and,

· Dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Council Chair.
B. Rights of the Accused Student Upon Hearing – An accused student appearing before the Honor Council shall have the right to:

Submit, if he or she should choose to do so, a written response to the charge outlined in the Notice before the scheduled hearing is to commence;

· Review and obtain copies, in advance, of any materials that will be presented by the PAL at the hearing;

· Submit a written request for a list of witnesses to be called by the PAL at the hearing;

· Be present at the hearing;

· Have an advisor or counselor appear with the accused and to consult with such an adviser or counselor before and/or during the hearing; however, the adviser/counselor will not be allowed to question witnesses and/or address members of the Council. The accused student must notify the chair at least 48 hours in advance with the name and relationship of the advisor and the name of any witness that will attend the hearing;

· Hear or examine evidence presented to the Honor Council; · Question the PAL and any witnesses who testify at the hearing;

· Present evidence by witness, affidavit, or documents in any media; · Make any statement to the Honor Council in mitigation or explanation of the conduct in question;

· Be informed in writing of the findings and any decisions imposed by the Honor Council;

· Appeal the decision and/or disposition to the Dean and to the Chancellor, as herein provided.

C. Conduct of the Hearing

All proceedings of the Honor Council are to be held in confidence by the members. The hearings shall be taped or stenographically recorded. The notice, exhibits, hearing record, verdict, and findings and determination of the Honor Council shall become the record of the Case and shall be filed in the Dean’s office at the School of Nursing. The record shall be accessible at the reasonable times and places to both the PAL and the accused student for the purpose of review or appeal.

The Honor Council Chair shall preside at the hearing, call the hearing to order, call the roll of the Honor Council members in attendance, ascertain the presence or absence of the accused student, read the Notice of Hearing and Charge and verify the receipt of Notice of Charge by the accused, report any continuances requested or granted, establish the presence of any adviser or councilor of the accused student, call to the attention of the accused student and the adviser any special or extraordinary procedures to be employed during the hearing, and permit suggestions for or objections to any procedures for the Honor Council to consider. NOTE: Advisors will not be
allowed to question the PAL, witnesses, and/or address members of the Council.

All requests to address the Council shall be addressed to the Chair. The Chair will rule on all requests and points of order and may consult with Council’s legal advisor prior to any ruling. The Chair’s ruling shall be final, and all participants shall abide thereby, unless the Chair shall present the question to the Council at the request of a member of the Council, in which event, the ruling of the Council by majority vote shall be final.

Rules of common courtesy and decency shall be observed at all times.

1. Opening Statements:

· The PAL may make an opening statement outlining the general nature of the case.

· The accused student may make an opening statement to the Council about the charge at this time or at the conclusion of the School of Nursing’s presentation.

2. School of Nursing’s Evidence:

· Witnesses of the School of Nursing are to be called, identified and questioned by the PAL, and any written reports or evidence introduced by the PAL as appropriate.

· The Council may question witnesses at any time.

· The accused student may question witnesses or examine evidence at the conclusion of the PAL’s presentation.

3. Accused Student’s Evidence:

· If the accused student has not elected to make an opening statement previously, he or she shall have the opportunity to make a statement to the Honor Council about the charge at this time.

· The accused student may present evidence through questioning witnesses or by written memoranda or other documents.

· The Council may question the accused student or witnesses at any time.

· The PAL may question witness or examine evidence at the conclusion of the accused student’s presentation.

4. Rebuttal Evidence:

The Honor Council may permit the PAL or the accused to offer a rebuttal to the other’s presentation.
VI. Determination of the Honor Council

Following the hearing, the Council shall promptly deliberate in closed session out of the presence of the accused, the witnesses, and the PAL. The Honor Council shall determine by a simple majority vote based on the evidence presented in the hearing whether they believe the student violated the Standards of Professional and Ethical Behavior as charged, and if so what sanction, if any, is appropriate. Separate findings shall be made as to the conduct of the student and as to the sanction, if any, to be imposed. The Council shall promptly submit its findings and determination in writing to the accused student and to the PAL.

The findings and determination of the Honor Council shall serve as a decision for the School of Nursing.

VII. Appeal to the Dean

If the student so desires, he or she may appeal the decision of the Council to the Dean within 10 business days of the Honor Council decision. A copy of the Notice of Appeal shall be given by the student to the PAL. The student may file a written memorandum for consideration by the Dean with the Notice of Appeal, and the Dean may request a reply from the PAL. The Dean shall review the record of the case and the appeal documents, and may affirm, reverse, or remand the case for further proceedings before the Honor Council.

The Dean shall notify the accused of his or her decision in writing, by certified mail. Copies of the letter will be sent to the Honor Council Chair, the PAL, and will be included with the official hearing file.

VIII. Appeal to the Chancellor

The accused student may appeal from the Dean’s decision to the Chancellor or designated representative by filing written notice of appeal with the Chancellor within ten (10) business days after notification of the decision of the Dean. A copy of the Notice of Appeal will also be given by the accused to the Dean of the School of Nursing and to the PAL at the time of filing. The accused student may file a written memorandum for consideration by the Chancellor with the Notice of Appeal.

The Chancellor or designated representative shall review the record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify the Dean and the accused student in writing of the decision on the appeal. The action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

IX. Status during the Appeal

In cases of suspension, dismissal or expulsion where a Notice of Appeal is filed within the required time, the accused student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit the accused student to continue in school under such conditions as may be designated pending completion of appellate
procedures, provided such continuance will not disrupt the University or constitute a danger to the health, safety or welfare of the University Community. In such event, however, any final disciplinary action imposed shall be effective from the date of the action of the Honor Council.

X. Status of the Standards of Professional and Ethical Behavior

Amendments to the Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations may be proposed by petition of any twenty-five members of the student body, or the Honor Council on its own motion, or the faculty.

A proposed amendment in the Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations must be approved by a 2/3 majority vote of the Honor Council members present (all members have the right to vote on amendments = 9 votes), by a 2/3 majority vote of the faculty present, by the Chancellor, and by the Board of Curators.

The Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations may be terminated at any time by action under the general amending procedure.

STANDARDS OF PROFESSIONAL AND ETHICAL BEHAVIOR University of Missouri – Kansas City School of Nursing

I. Preamble

One of the goals of a school of nursing is to educate student nurses during the transition to a professional life. The University of Missouri – Kansas City School of Nursing (UMKC-SON) has an obligation to society [1] to evaluate students pursuing the B.S.N., M.S.N., and Ph.D. degrees, as thoroughly as possible. This responsibility includes their cognitive abilities, their academic and professional knowledge and skills, their integrity, and their suitability to practice nursing in their desired professional role. Accordingly, the Standards of Professional and Ethical Behavior detailed in this document have been developed to guide students who are enrolled at all levels with the UMKC-SON, including undergraduate and graduate students, and are designed to assure accountability for the professional and ethical standards of the nursing profession.

II. Integrity

A. Personal and Professional Integrity

1. Honesty

A student nurse shall deal honestly with people including, but not limited to, colleagues, instructors, representatives of the University, patients, attending physicians, nursing staff, any representative of our clinical agencies, and other members of the health care team. Student nurses are expected to demonstrate honesty and integrity in all aspects of their interaction with patients and staff – particularly in assuring accuracy and completeness in their actions and documentation. The student nurse shall be willing to admit errors and must not mislead others or promote himself or herself at the patient’s expense. The student nurse shall strive to report, by
utilizing the Honor Council Procedures for Violations of the Standards of Professional and Ethical Behavior, those student nurses deficient in character or competence, or who engage in fraud, deception, and/or dishonesty.

A basic principal underlying all research is honesty. Scientists and student nurses who participate in research have a responsibility to provide research results of the highest quality; to gather facts meticulously, to keep impeccable records of work done; to interpret results realistically, not forcing them into preconceived molds or models; and to report new knowledge through appropriate channels. Co-authors of research reports must be sufficiently acquainted with the work of their co-workers that they can personally vouch for the integrity of the study and validity of the findings, and must have been active in the research itself.

Examples of academic dishonesty include, but are not limited to, the following:

a. Cheating

· Use of any unauthorized assistance in taking quizzes, tests, or examinations;

· Dependence upon the aid of unauthorized sources in writing papers, preparing reports, solving problems, or carrying out assignments;

· Acquisition or possession without permission of tests or other academic material belonging to a member of the University faculty or staff;

· Use of assignments or papers prepared in one class for another class without disclosing such information to the faculty

· In any way giving assistance to others who are participating in any of the three preceding types of behavior; or

· Falsifying attendance records or other official documents.

b. Plagiarism

· Use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference;

· Unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or

· Unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.
c. Sabotage

· Unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University.

d. Falsification of Patient’s Medical Record or Information

Examples of dishonesty related to clinical practice include, but are not limited to, the following:

· Writing progress notes or other documentation regarding the patient’s status, including, but not limited to, clinical observations, medication administration or results in the patient’s chart when the student nurse has not seen or evaluated the patient, or using incorrect times of data entry.

· Reporting medical information such as physical examination findings, lab values, test results, medications, or any other relevant patient information to other students, nurses, nursing supervisors, residents, attending physicians, the patient, the patient’s family or other relevant health care personnel that has been fabricated by the student nurse.

2. Responsibility

A student nurse must acquire competencies with the appropriate concepts, knowledge and skills that the faculty determine essential. These competencies shall be utilized to care for the sick and to promote the health and welfare of society [2] . A student nurse shall recognize a responsibility to participate in activities contributing to an improved community. Student nurses in the care of patients must not be harmful, dangerous, or negligent to the mental or physical health of a patient or the public. Negligent means failure to exercise that degree of skill and learning ordinarily used under the same or similar circumstances by other student nurses.

Students must be familiar with and follow the rules and regulations of the School of Nursing, the University, and professional organizations which they are required to follow as nursing students.

Copies of such rules and regulations are attached herewith.

B. Professional Nursing Behavior

1. Nondiscrimination

A nursing student shall provide care to patients without discriminating based on race, color, creed, sex, age, national origin, disability or Vietnam Era Veterans status. It is against the University regulations to discriminate on the basis of race, color, creed, sex, age, national origin, disability, or Vietnam Era Veterans status. The University has an AIDS policy statement consistent with state law that prohibits discrimination against persons with AIDS or who are HIV positive.
2. Confidentiality

A student nurse shall respect the rights of patients, colleagues, affiliated institutions, and other health professionals, and shall safeguard patient confidences within the constraints of law. The patient’s right to confidentiality in regard to his or her medical record, which includes confidentiality of personal and social history, is a fundamental tenet to health care. The discussion in public of the problems of an identified patient, without the patient’s permission, by professional staff (including other students) violates patient confidentiality and is unethical. Under no circumstances can any medical record be removed from any institution. Photocopying of the entire record is never permitted for presentations, rounds, or conferences; if permitted by the health care institution or provider students are permitted to extract information, but not copy ‘wholesale’ parts of the chart. Names of the patients should be omitted from any documents used for these presentations.

3. Disclosure

While the student nurse is a member of the patient care team and under direct or indirect faculty supervision, a student nurse shall continue to study, apply and advance scientific knowledge, make relevant information available to patients, colleagues, and the public, obtain consultation and use the talents of other health professionals when indicated.

Sharing of medical information appropriately with a patient and colleagues involved in the care of the patient is a fundamental ethical requirement. The patient must be well informed to make health care decisions and work intelligently in partnership with the patient care team. Information that the patient needs for decision-making shall be presented in terms that patient can understand. If, for some reason, the patient is unable to comprehend, there shall be disclosure to the patient’s authorized representative.

Failure of a student nurse to share medical information relevant to a patient with a patient and colleagues involved in the care of the patient is unethical. Providing inaccurate information with these individuals is also unacceptable.

4. Misconduct with Patients

The student nurse will not engage in nonprofessional behaviors with a patient – even upon the apparent request of a patient – while the student nurse is involved with the patient’s care.

5. Representation

A student nurse shall accurately represent himself or herself to others including, but not limited to, colleagues, instructors, representatives of the University and their affiliates, partner institutions, patients, nurses, and other members of the health care team. Examples of misrepresentation include, but are not limited to the following:

· Misrepresentation of the student’s position, knowledge, and authority, including use of the title “nurse” by an undergraduate student nurse, or by use of the titles advanced practice
nurse (APRN), nurse practitioner (NP), clinical nurse specialist (CNS), nurse midwife (NM), or nurse anesthetist (CRNA) by a graduate student.

- Use of fraud, deception, lies, or bribery in securing any certificate or registration or authority, diploma, permit or license issued, or in obtaining permission to take any examinations.

- Impersonation of any person holding a certificate of registration or authority, permit, license or allowing any person to use his/her certificate of registration or authority, permit license, or diploma from any school.

- Forgery, alteration, or misuse of a patient’s medical records or knowingly furnishing false information to the other members of the health care profession and/or professional organizations.

6. Assessment of Personal Competence (Self-Evaluation)

Student nurses shall seek consultation and supervision whenever their ability to play their role in the care for a patient is inadequate because of lack of knowledge or experience. Students are expected to respond to constructive criticism by appropriate modification of behavior.

7. Professional Demeanor

The student nurse is a representative of UMKC, and should realize that their behavior may positively and negatively affect the judgments of others about UMKC-SON.

UMKC-SON students are expected to be thoughtful and professional when interacting with faculty, patients and their families, nurses, attending physicians, nursing preceptors, affiliated institutional staff, other students, and other members of the health care team.

Students shall maintain a neat and clean appearance, and dress in attire that is generally accepted as professional by the patient populations served.

Inappropriate behavior includes, but is not limited to, the use of offensive language, gestures, or remarks. Attempting, directly or indirectly, by way of intimidation, coercion or deception, to obtain or retain a patient or discourage the use of a second opinion or consultation is not appropriate.

8. Impairment

The student nurse will not use alcohol or drugs in ways that impair his/her ability to perform the work of the profession or results in compromised patient care. It is the responsibility of every student nurse to strive to protect the public from an impaired colleague and to assist that colleague whose capability is impaired because of alcohol or drug use.
9. Conflict of Interest

If a conflict of interest arises, the moral principle is clear – the welfare of the patient must be, at all times, paramount. For example, gifts, hospitality, or subsidies offered by manufacturers and distributors of medical and or other equipment/goods shall not be accepted if acceptance would influence the objectivity of clinical judgment.

10. Criticism of Colleagues

Professional relations among all members of the medical community shall be marked by civility. Scholarly contributions shall be acknowledged and each person shall recognize and facilitate the contributions of others to this community; slanderous comments and acts are not acceptable. Student nurses shall deal with professional, staff, and peer members of the health team in a considerate manner and with a spirit of cooperation.

It is unethical and harmful for a student nurse to disparage, without sufficient evidence, the professional competence, knowledge, qualifications, or services of a colleague to anyone. It is also unethical to imply without reliable evidence – by word, gesture, or deed – that a patient has been poorly managed or mistreated by a colleague.

11. Teaching

It is incumbent upon those entering this profession to teach what they know of the science, art, and ethics of nursing care. It includes communicating clearly and teaching patients so that they are properly prepared to participate in their own care and in the maintenance of their health.

III. The University of Missouri Student Conduct Code

In addition to the conduct detailed in the preceding sections, a student nurse is subject to the University of Missouri Student Conduct Code, as administered by the Office of the Vice Chancellor for Student Affairs, except for provisions dealing with academic dishonesty, Section 200.01 0 B. 1.

Conduct for which students are subject to sanctions falls into the following categories:

A. Forgery, alteration, or misuse of University documents, records or identification, or knowingly furnishing false information to the University.

B. Obstruction or disruption of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.

C. Physical abuse or conduct which threatens or endangers the health or safety of any person.

D. Attempted or actual theft of, damage to, or possession without permission of property of the University or of a member of the University community or of a campus visitor.

E. Unauthorized possession, duplication, or use of keys to any University facilities or unauthorized entry to or use of University facilities.
F. Violations of University policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.

G. Manufacture, use, possession, sale or distribution of alcoholic beverages or any controlled substance without proper prescription or required license or as expressly permitted by law or University regulations.

H. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.

I. Failure to comply with direction of University officials acting in the performance of their duties.

J. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals.

K. Actual or attempted theft or other abuse of computer time, including but not limited to:
   · Unauthorized entry into a file to use, read, or change the contents, or for any other purpose;
   · Unauthorized transfer of a file;
   · Unauthorized use of another individual’s identification and password;
   · Use of computing facilities to interfere with the work of another student, faculty member, or University official;
   · Knowingly causing a computer virus to become installed in a computer system or file.

Details of the policies, procedures, sanctions, and due process for violations of the University of Missouri Student Conduct Code are found in the University of Missouri – Kansas City General Catalogue and the student handbook.

**School of Law Honor Codes**

I. Preamble

We, the students at the University of Missouri - Kansas City School of Law, recognizing that the recorded evaluation of our academic pursuits must reflect the products of intelligence guided by integrity, do hereby establish this Honor Code so that all who may inquire can be assured that our individual accomplishments were honestly achieved; and so all who achieve may welcome inquiry. Wherefore we pledge ourselves, each and all, to careers founded in integrity and to the enforcement of the standards herein defined. Each student shall have the affirmative duty of assisting in the implementation of this Code.

II. Definitions

1. **Academic Matter:**
   All examinations, writing assignments, and programs or activities (such as Moot Court, Law Review or Urban Lawyer) which in any manner affect or result in a Law School grade or satisfaction of a requirement for graduation.

2. **Accused:**
   Student who is the subject of a hearing on an Honor Code violation.

3. **Class:**
   Group of students, based on year in Law School and academic progress. For the purposes of this code, those who are in their post third-year or are working on advanced degrees, shall be deemed third-year students.

4. **Gender:**
   Any use of grammatical gender reference shall be interpreted as applying equally to males and females.

5. **Matter Relating to Academic Credentials:**
   Any representation made to any person concerning academic achievements or performance in Law School sponsored programs affecting a requirement for graduation.

6. **SBA President:**
   President of the Student Bar Association.

7. **Student:**
   A student (as defined in 200.020.B.8. of the University's Collected Rules and Regulations) at the University of Missouri-Kansas City School of Law.
8 Unauthorized Sources:
All written material and persons except as otherwise authorized by the instructor.

III. Violations

1 Jurisdiction:

Any conduct by a student that tends to gain or give an unfair advantage for any student in any academic matter or in any matter relating to academic credentials is considered unethical and a violation of the Code. It shall not be necessary for the Prosecutor to prove that any advantage was, in fact, achieved. Any conduct by a student impeding the fair operation of this Code is also a violation of this Code.

2 Specific Violations:

Prohibitions of the Code include, but are not limited to, the following:

- During an examination, no student shall have, consult, give to another, receive from another, or solicit from another any information or material unless specifically authorized by the instructor.

- No student shall knowingly convey, directly or indirectly, to another student any information about the contents of an examination that the other student has yet to take.

- No student, with the intent to improve his or her grade, shall convey to an instructor any information that tends to identify his or her authorship of an examination yet to be graded.

- No student shall work on his or her examination other than during the time prescribed, nor in a room other than one designated for the taking of the examination.

- For any assignment that counts toward a grade or is required for graduation, no student shall consult unauthorized sources of information.

- No student shall remove or withhold library material from the library, or secrete such material in the library, or destroy or mutilate such material, or use such material in a manner calculated to gain an unfair advantage for either him or herself or another student in connection with any academic matter.

- No student shall make any false representation on a resume, transcript or other written material relating to his or her Law School credentials. Nor may any student falsely represent his or her Law School credentials in any other way to a potential employer or academic institution.

- No student shall plagiarize. Violation of the plagiarism policy adopted by the faculty of the Law School on October II, 1990 is a violation of the Code. A statement of the offense
and definition of plagiarism is incorporated in this Code by reference and linked to this Code at the following Web address: http://www1.law.umkc.edu/academic/plagiarism.htm

- No student other than the accused shall fail to report a suspected violation of this Code or fail to give information about such violation, testify, or attend hearings authorized by the Code, except for good cause shown.

- No student witness shall fail to appear at a hearing held under the Code, unless good cause exists.

- No student shall improperly induce a person not to comply with this Code.

- No student shall fail to use best efforts in the performance of his or her duty under this Code.

3 Mens Rea:

Unless otherwise specifically stated in this Code, a student is not guilty of a violation unless he or she acted knowingly or recklessly with respect to each material element of the violation.

4 Specific Exclusions:

The Code does not cover:

- Infractions of rules limiting smoking, soft drinks and coffee, etc., to certain designated examination rooms.
- Disciplinary matters not related to academic credentials or academic matters. The University of Missouri Standards of Conduct details these matters not covered by this Honor Code.

IV. Honor Court and Prosecutor

.01 Honor Court. There shall be a body known as the Honor Court composed of a Chief Justice and four Associate Justices. The Chief Justice shall be selected by a majority vote of the entire Court to serve at the pleasure of the Court.

The Honor Court shall hear all cases involving alleged violations of this Code by students, excepting those cases disposed of informally per 6.03. The proper Court to hear a charge shall be the Court sitting at the time of the hearing rather than at the time of the violation. The Court shall also make advisory opinions.

Four (4) Justices shall constitute a quorum. Each of the justices shall have one (1) vote. The Chief Justice shall be entitled to vote on all matters before the Court.
The Chief Justice, or his or her designee, shall inform new students of this Code during orientation. A copy of the Code shall be published in each edition of the Law School Student Handbook and available in the law building in the Dean's office.

.02 Student Prosecutor. There shall be a Student Prosecutor and an Assistant Student Prosecutor. The Prosecutor shall conduct investigations and present the case against the accused. The Student Prosecutor shall not make plea agreements at any time.

V. Appointments and Qualifications

.01 General. The Justices of the court shall be two third-year students, two second-year students and one first-year student. There shall be alternate justices in the same number and composition.

The Student Prosecutor shall be a third-year student. The Assistant Student Prosecutor shall be a second-year student.

.02 Appointment and Term of Office:
   a) Justices. One first-year justice, one first-year alternate justice, one second-year justice, and one second-year alternate justice will be selected by the SBA President on the basis of applications submitted to him or her. The selection will be made at the first SBA meeting of the fall semester that includes the first-year representatives.

Justices will serve three one-year terms unless they resign, graduate, are removed for cause or become otherwise ineligible. Justices who graduate may serve until the first-year justices are appointed.

Justices seated at the time this Code becomes effective are deemed to have been appointed in accordance with this section.

b) Prosecutor. The student prosecutor shall be the person who was the assistant student prosecutor during the previous academic year, provided, however, that if that person is no longer eligible, the SBA President shall select a student prosecutor. The selection of the assistant student prosecutor shall be made by the SBA President before the end of winter semester classes. Selections shall be made on the basis of the designee's class for the following year.

The Prosecutor's term of office shall begin on the first day of the summer session, provided, however, that cases arising before or during the winter semester final examination period shall be conducted by winter semester office-holders.

.03 Forfeiture of Office for Cause. A student is ineligible to continue as a Justice, Prosecutor or an alternate if he or she is placed on academic or disciplinary probation, or if for any other reason his or her continuation in office may not be in the best interest of the School of Law as determined by the Board of Governors.
.04 Disqualified from Duty. Justices or Prosecutors shall disqualify themselves from performing their duties when they feel that they cannot impartially perform those duties. The accused can raise or suggest grounds for such disqualification of a justice. The failure of Justices to disqualify themselves may be raised on appeal as a possible abuse of discretion.

Disqualification of a Justice or Prosecutor creates a temporary vacancy and shall be filled pursuant to 5.05(b).

.05 Vacancies.

a) Permanent Vacancies. If by graduation, or for any other reason, a permanent vacancy occurs during a normal term of office, such vacancy shall be filled in a manner consistent with 5.01. If for any reason a vacancy is not filled when needed, it may be treated as a temporary vacancy and filled as prescribed. 5.05(b).

b) Temporary Vacancies. Vacancies that are created when a student is unavailable, disqualifies him or herself or the Court sustains a challenge for cause, shall be filled by the SBA President who shall ask the alternate from the same class to serve. If the alternate is not available, the SBA President shall select another member of the class who is not ineligible to serve.

IV. Violation and Investigation Reports

.01 Reports Made. Any person may report a suspected violation of the Honor Code. Reports may be made to either the SBA President or to the Associate Dean.

If reported to the SBA President, the SBA President shall notify the Associate Dean of the report of a suspected violation as soon as possible.

.02 When Made. Reports of suspected Honor Code violations must be made within 45 days of the discovery of the suspected violation.

.03 Informal Disposition or Submission of Case to Student Prosecutor. The Associate Dean shall have the authority to investigate the reported suspected violation of the Honor Code before initiating formal disciplinary procedures and give the student the opportunity to present his/her personal version of the incident or occurrence. After doing so, the Associate Dean may, for good cause shown, informally dispose of the case, and, after explaining to the student the various options available, shall fix a reasonable time within which the student suspected to have violated the Honor Code shall accept or reject a proposed informal disposition. If no informal disposition is deemed appropriate by the Associate Dean or the student rejects a proposed informal disposition, the Associate Dean shall notify the student prosecutor of the report of a suspected violation of the Honor Code. Should the Prosecutor disqualify him or herself pursuant to 5.04, the SBA President shall fill the temporary vacancy pursuant to 5.05(b). Any statements made by the student suspected of violating the Honor Code to the Associate Dean in the course of the informal disposition process shall not be communicated to the student prosecutor or be admissible against the student in subsequent Honor Court proceedings.
.04 Investigation by the Prosecutor. Upon notification by the Associate Dean of the report of a suspected violation of the Honor Code, the Prosecutor shall conduct an investigation.

Any student called upon to supply information relevant to the investigation, other than the accused, shall comply as fully as possible.

At the completion of the investigation, if the Prosecutor feels the evidence is insufficient to justify prosecution.

The Prosecutor shall so notify the SBA President and the Associate Dean, and with their concurrence the case may be dropped.

If the Prosecutor determines that probable cause exists to prosecute a person for a violation of the Honor Code, he or she shall send notice of this finding to the Associate Dean of the Law School.

.05 Submission of Case to Grand Jury.

a) Upon notice that the Prosecutor has determined that probable cause exists to prosecute a person for a violation of the Honor Code, the Associate Dean shall convene a grand jury hearing.

b) The Associate Dean shall select six names at random from the Law School student body. The Associate Dean shall summon the people selected to attend a meeting with himself and the SBA President. At this meeting the Associate Dean shall inform the students selected that the first three qualified students selected will be required to serve on a grand jury to determine whether or not probable cause exists to believe the Honor Code has been violated. The Associate Dean may excuse any grand juror for cause and replace that grand juror with an alternate. The Associate Dean shall inform the grand jury of their membership on the grand jury and all grand jury proceedings are confidential. The SBA President and the grand jurors shall select a date, time and place for the grand jury proceeding, providing that the selection of such a date will not unreasonably delay the Honor Court proceedings. The SBA President shall inform the Chief Justice and the Prosecutor of the date of the hearing.

c) The Prosecutor shall have the duty of providing the Chief Justice with a copy of the items of evidence that form the basis for his or her determination that probable cause exists to prosecute for a violation of this Honor Code. The copies provided by the Prosecutor to the Chief Justice shall have all identifying characteristics removed except as necessary to establish probable cause that a violation of this Code has been committed. The Prosecutor shall place a copy of these items of evidence and a summary of why he or she believes probable cause exists in a signed and sealed envelope. The envelope of evidence shall be delivered to the Chief Justice before the grand jury proceeding. If the suspected violation is plagiarism, the Prosecutor shall provide the Chief Justice with the original sources that the grand jury needs to adequately evaluate the evidence provided in the packet. The Chief Justice shall make arrangements to provide the grand jury with the
source material. This packet shall also contain a form for the grand jury to report its findings.

The investigative power of the grand jury is strictly limited to the evidence presented by the Prosecutor. The grand jury shall not independently investigate the matter. The grand jury may submit written questions to the prosecutor through the Chief Justice.

d) The Chief Justice of the Honor Court will initiate the grand jury proceeding by informing the grand jury that the grand jury proceedings are to be confidential. The Chief Justice should elicit from the grand jurors signed statements that the grand jurors understand fully the duty of confidentiality. The Chief Justice shall advise the students that the information presented to the grand jury will be known only to the student prosecutor and themselves and that a breach of confidentiality may be an Honor Code violation.

e) After the Chief Justice has fulfilled the obligations imposed by section (d), he or she should give the grand jury the sealed envelope provided by the Prosecutor containing the evidence and remove him or herself from the grand jury proceedings.

f) After the Chief Justice has left the grand jury room, the grand jury will break the seal on the evidence envelope and examine the contents. The grand jury shall examine the evidence and determine whether probable cause exists for finding a violation of this Code. A decision shall be made within a reasonable period of time, not to exceed ten (10) days.

g) The finding of probable cause or the lack of probable cause will be determined by a majority vote of the grand jurors. This vote is binding on all members of the grand jury.

h) After the grand jury has reached a decision, it shall record that decision on the form provided for such purpose in the envelope described in 6.04(c) and sign it. The evidence shall be returned to the envelope provided by the Prosecutor, sealed, and signed. The envelope shall be delivered to the Chief Justice in a place and manner prescribed by the Chief Justice.

i) The Chief Justice shall deliver the envelope with the grand jury finding to the Associate Dean. The Associate Dean shall break the seal on the envelope in the presence of the Prosecutor who shall verify that the envelope contains all the items of evidence the Prosecutor originally placed in the envelope.

j) The Associate Dean shall reveal the finding of the grand jury only in furtherance of the procedures of this Honor Code and then only to the necessary parties.

.06 Hearing Date and Notice. A hearing shall be held as soon as possible after the grand jury has determined that there is probable cause to believe the accused has violated the Honor Code. In no case shall more than 45 days elapse between the suspected violation report and the hearing, unless a later date is agreed upon by the Prosecutor and the student charged.
The student shall be notified of a hearing in writing by the Chief Justice. The notice shall set forth the date, time and place of the alleged violation, the conduct to be inquired into, and the date, time, and place of hearing before the Honor Court. The notice shall be given at least seven (7) days in advance of the scheduled date of the hearing, unless a shorter time be fixed for good cause.

VII. Hearing Procedure

.01 Confidentiality. Honor Court hearings shall be closed to the public unless the accused requests a public hearing, in which case one shall be provided. An audio recording shall be made of the proceeding and shall become part of the record.

.02 Ex Parte Communication. Except as to procedural matters, there shall be no ex parte communication with any Justice by the Prosecutor, by defense counsel or by the accused.

.03 Pre-Trial Motions. All pre-trial motions, including motions in limine, shall be in writing and given to the Chief Justice at least four days prior to the hearing. The Court may set a time limit on hearing pre-trial motions. The Court shall hear pre-trial motions no later than the day before the trial.

.04 Evidence. A student defendant or prosecutor appearing before the Honor Court shall have the right to present any evidence by witness or affidavit relating to any charge or defense. The formal rules of evidence shall not apply and the Court may consider relevant testimony of witnesses, affidavits, written reports, and any other relevant evidence.

.05 Witnesses. At least two (2) days in advance of the scheduled date of the hearing, witnesses shall be notified by the party calling them of their obligation to appear. Witnesses shall bring with them whatever documentation is requested. Failure of a student witness to appear, without good cause, is a violation of this Code.

The Prosecutor may not call the defendant as a witness. The defendant may elect to testify or not, as he or she chooses. No unfavorable inference may be drawn should the defendant choose not to testify.

.06 The Court. The Chief Justice shall preside at the hearing. The Prosecutor shall present the case against the accused. The accused may represent him or herself or may be represented by an adviser or legal counsel.

.07 The Hearing. The Prosecutor shall make an opening statement and present the evidence against the accused. The Accused or his or her representative may elect to make an opening statement either at the conclusion of the Prosecutor's opening or after the Prosecution’s evidence has been presented. At the conclusion of the Prosecution's case-in-chief, the accused may present his or her evidence.
Each party shall have the right to cross-examine the opposing party's witnesses. Either party may present further rebuttal evidence when, in the discretion of the Chief Justice such evidence is relevant and will not unduly delay the proceedings. After all evidence has been presented, the Prosecutor may make a closing argument, if so elected, the Prosecutor may present a rebuttal.

.08 Court's Decision. The Court shall promptly deliberate and make its findings and determinations in executive session. If seventy-five percent (75%) of the members of the court find by clear and convincing evidence that the accused has committed the violations charged, it shall recommend to the Dean one or more of the sanctions prescribed in 8.02, subject to the mitigating circumstances exception in 8.03.

If at all possible, the Court shall render a decision immediately following its deliberations. In no event shall its decision be announced later than three (3) days following the conclusion of the hearing. An oral presentation of the Court's findings and recommendations is permitted following the hearing, but a written report including findings of facts, conclusions and recommended disposition shall be filed within one week after conclusion of the hearing. Concurring or dissenting opinions may be filed according to the same terms.

The report of the Court, including any concurring or dissenting opinions, and the entire record of the proceedings shall be submitted to the Dean and the accused as soon as possible after issuance.

.09 Procedural Questions. Procedural questions arising during the course of proceedings that are not covered by these rules shall be resolved by the Chief Justice. All objections concerning procedure shall be made/raised in writing to the Chief Justice. The Chief Justice shall answer all objections in writing and forward both the objection and the decision to both the Prosecutor and defense counsel and to all other justices sitting on the Court for that hearing.

The decision of the Chief Justice on a procedural question may be challenged by the accused, the prosecutor, or a sitting member of the Court. The Chief Justice shall present any challenge to the sitting Court and the ruling of the majority of the Court shall be final. There shall be a form, prepared by the Chief Justice, for appealing a procedural decision. The party challenging the decision shall complete the form and forward a copy to all sitting justices. All such challenges must be made on a timely basis.

.10 Review of Record by Dean. Upon receipt of the Court's report, the Dean will, within a reasonable amount of time, review the entire record, including the Court's findings of facts, conclusions and recommendations and render a decision in the case.

The Dean may remand for further consideration of specific issues. A decision by the Dean to remand shall include a list of questions for the Court. The Court shall then respond in writing within fourteen (14) calendar days. The Dean may not reverse a finding of not guilty by the Court.
The Dean's decision shall be transmitted in writing to the accused and to the Chief Justice of the Honor Court. Where the accused has been found guilty by the Court, a copy of the Dean's decision will be placed in the student's official file.

VIII. Sanctions

.01 Report of Misconduct. Where a finding that the accused has violated the Code has been made, the misconduct may be called to the attention of the proper University authorities, Bar authorities or any other affected parties for appropriate action.

.02 Sanctions. The following sanctions may be recommended by the Court to the Dean and imposed by the Dean:

a) Expulsion. Permanent separation of the student from the School of Law.

b) Dismissal. An involuntary separation of the student from the School of Law. It does not imply or state a minimum separation time.

c) Suspension. Separation of the student from the School of Law for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.

d) Probation. Disciplinary probation, subject to any appropriate terms or conditions.

e) Reprimand. Written or oral reprimand.

.03 Mitigating Circumstances. When considering a recommended sanction upon finding that a violation has occurred, the Court may consider mitigating circumstances such as, but not limited to, any physical, mental, financial, or emotional problems of the accused. If the severity of mitigating circumstances requires, the Court may recommend no sanction be levied on the accused, even though a violation has occurred.

If the Court considers mitigating circumstances when recommending a sanction, the written report of the Court shall include a full explanation thereof.

IX. Appeals

.01 Right to Petition for Review (other than dismissal or suspension). In all cases where the discipline imposed by the Dean is other than dismissal or suspension, the accused may petition the Chancellor in writing for a review of the decision within ten (10) consecutive calendar days after notification. A copy of the Petition for Review must also be served upon the Dean within such time. The Petition for Review shall state the grounds or reasons for review, and the Dean may answer the petition within ten (10) consecutive calendar days if he or she so desires.
The Chancellor or his or her designated representative may grant or refuse the right of review. In all cases where the Petition for Review is refused, the decision shall be final. If the Chancellor or representative reviews the decision, the action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

.02 Right of Appeal (dismissal or suspension only). When a student is dismissed or suspended from the University for an Honor Code violation by the Dean, the student may appeal such decision to the Chancellor within twenty (20) consecutive days after notification of the decision of the Dean. A copy of the notice of appeal will contemporaneously be given by the student to the Dean. The student may file a written memorandum for consideration by the Chancellor with the notice of appeal, and the Chancellor may request a reply to such memorandum by the appropriate party. The Chancellor or his/her designee shall review the full record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify the Dean and the student in writing of the decision on the appeal. The action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

.03 Status During Appeal. In the cases of suspension or dismissal where a notice of appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not seriously disrupt the University or constitute a danger to the health, safety or welfare of the University community. In such event, however, any final disciplinary action imposed shall be effective from the date of the action of the Dean.

X. Advisory Opinions

.01 When required to do so, the Court may render advisory opinions on matters relating to the application of the Code.

.02 A box shall be located in a public area of the Law School for the purpose of receiving written requests by students of the Law School for advisory opinions.

.03 The Honor Court shall submit its advisory opinion, in writing, to the Dean and the SBA President.

.04 The Dean, within a reasonable time, shall respond to the advisory opinion.

.05 The advisory opinion and the Dean's response shall be appropriately posted and made available to the students in the library.

.06 Conduct consistent with an advisory opinion shall be presumed not to be in violation of the Code.
XI. Amendments

.01 Amendments to the Honor Code may be proposed by petition of any ten (10) students, by the Board of Governors of the Student Bar Association on its own motion, or by petition of a majority of the Honor Court.

.02 A proposed amendment shall be adopted if at the adoption election at least two-thirds (2/3) of the students voting shall vote favoring the proposed amendment.

XII. Adoption

This Honor Code shall be in effect when approved by a two-thirds vote of the students voting, by the Dean of the School of Law, the Chancellor, and by the Board of Curators.
Policies and Procedures

Academic Amnesty Policy
The University of Missouri-Kansas City has an Amnesty policy to enable those students who did not perform adequately in their undergraduate enrollment at UMKC to be given a second chance to pursue their academic goals. The policy is as follows:

I. A student may apply or petition for amnesty if she or he meets the following requirements:
   1. Has not been enrolled at UMKC at any time during the past two years.
   2. Applies for readmission at UMKC and applies for academic amnesty at the same time or applies for amnesty before the end of the first semester of re-enrollment.

Note: Amnesty will not be considered for students who are concurrently enrolled or who intend to enroll at colleges and universities other than UMKC.

II. Academic Amnesty will be implemented as follows:
   1. Grades for all UMKC courses taken in the semester or semesters for which amnesty is requested will be marked if the request is approved. The student may not choose specific courses to be included, leaving other courses with an unmarked original grade.
   2. The original grade will remain on the student's record, but will be marked by an "x" preceding the grade. For plus/minus grades, the plus or minus will be dropped and the base grade will be used. For example, grades of A, B+, B, B-...F will be changed to XA, XB, ...XF. These hours and grades will remain on the transcript, but will not count toward cumulative hours nor GPA, nor can they be used to fulfill any degree requirements, regardless of the original grade.
   3. A statement "Grades granted amnesty by faculty committee action" (or similar) will follow the courses granted amnesty.
   4. The change to the transcript will be processed within 30 days following an approved petition for amnesty but in no case sooner than the end of the fourth week of classes in the first term in which the student re-enrolls. If the student then withdraws before grades are awarded at the end of that term the grades will be returned to the original grades.
   5. Students can receive amnesty only one time.

Academic Amnesty Procedures
A application may be made by use of a standard application form available online at www.umkc.edu/registrar/forms.html or by any written document or letter which contains the necessary information (see form). Applications should be submitted to the UMKC Records Office, to the attention of the Assistant Registrar-Records, prior to the first day of classes in the student's second semester of readmission.

Amnesty applications are acted upon by a standing faculty committee to be appointed by the Provost's Office.
Notification of committee decisions will be made in writing to the student and the appropriate Academic Deans by the UMKC Records Office.

**Academic Calendar Policy**
The University operates on the semester system with the academic year divided into fall, spring and summer semesters which are also called terms. Fall semesters are 16 weeks long and start in August and end in December. Spring semesters are 16 weeks long and begin in January and end in May. The 16 week semester is inclusive of the final exams week. Summer terms are 8 weeks long during the months of June and July.

Sessions are scheduled within a semester/term and may have durations other than 16 or 8 weeks. Courses are occasionally offered during the periods between semesters/terms in January, May, and August. These periods are called intersessions.

Professional and graduate programs may adhere to different academic calendars with the permission of the Provost.

Please refer to [http://www.umkc.edu/registrar/acal.asp](http://www.umkc.edu/registrar/acal.asp) for the most up-to-date academic calendar.

**Academic Credit Hour Equivalencies Policy**

These equivalencies represent minimum requirements.

One academic credit hour delivered in the traditional didactic teaching/learning approach is equivalent to three hours of student work per week (1 hour of classroom or direct faculty instruction and a minimum of two hours out of class student homework – Carnegie Unit), typically delivered over a 15 week academic semester. One academic credit hour of classroom or direct faculty instruction is equivalent to 50 minutes of clock time, over 15 weeks of instruction (excluding the final examination period), for a total of 750 minutes of direct faculty instruction over the semester. A 1 credit didactic, lecture class must meet 750 minutes during the semester, excluding the final examination period. Therefore, a 3 credit hour didactic, lecture class must meet 2250 minutes during the 15 weeks of instruction in a typical semester, excluding the final examination period.

One academic credit hour for a laboratory class is equivalent to two scheduled hours of laboratory experience per week (total minimum of 100 minutes), typically delivered over a 15 week academic semester. One academic credit hour for a laboratory class shall consist of one thousand five hundred (1,500) minutes of learning experience in the laboratory. Where a course includes arranged hours, these generally take the place of the hours assigned to homework. However, there are additional teaching/learning approaches that include, for example, clinical experiences, studio experiences, field studies, individual lessons, recitation/discussion that may follow a modification of the equivalencies for credit hour assignment. Those equivalency models are approved by each academic unit (school/college) dean. At least an equivalent amount of work in the traditional didactic teaching/learning approach is required for these additional types of academic learning activities.
For independent studies, practicum experiences, internships and directed readings academic credit is determined by standards and requirements established in each academic unit (school/college) that is dependent on the discipline/field of study, scope of the planned educational experience(s) and the academic experience and preparation of the student(s). Minimally, these learning experiences follow the model of requiring the student to work in the placement or devote focused study for 3 hours per week, for 15 weeks during the typical semester, to earn one academic credit hour. This translates to an estimated 45-60 hours of experience per semester for one academic credit hour. If a consistent academic equivalency is not established by the academic unit (school/college) for these types of teaching/learning experiences, an individual written agreement must be developed for each individual student experience. This written agreement will outline the scope of the work to be achieved, learning objectives/outcomes and the academic assessment standard to be applied. This written agreement must be approved by the respective chair/program director and dean. The respective dean’s office will be responsible for retaining the appropriate documentation.

Any equivalencies below these minimum equivalencies must be submitted in writing for review and approval by the Provost.

Acceptable Use Policy

(110.005 Acceptable Use Policy; Bd. Min. 9-14-00.)

This policy is also available at http://www.umsystem.edu/ums/rules/collection_rules/facilities/ch110/110.005_acceptable_use_policy.

This policy applies to all users including faculty, staff, students, and guest users of University of Missouri computer networks, equipment, or connecting resources.

A. UNIVERSITY INSPECTION OF PERSONAL ELECTRONIC INFORMATION --

Electronic information on University networks or equipment, including, but not limited to, electronic mail and personal information, is subject to examination by the University where:

1. It is necessary to maintain or improve the functioning of University computing resources;

2. Where there is a suspicion of misconduct under University policies, or suspicion of violation of Federal or State laws; or

It is necessary to comply with or verify compliance with Federal or State law.
B. ACCEPTABLE USE GUIDELINES

1. Responsibilities of Users of University Computer Resources:

   a. Respect the intellectual property rights of authors, contributors, and publishers in all media.

   b. Protect user ID, password, and system from unauthorized use.

   c. Adhere to the terms of software licenses and other contracts. Persons loading software on any University computer must adhere to all licensing requirements for the software. Except where allowed by University site licenses, copying software licensed for University use for personal use is a violation of this policy.

   d. Adhere to other University and campus policies, including the Collected Rules and Regulations of the University of Missouri, and, if applicable, the University Business Policy Manual, Human Resources Manual and policies established for a specific resource.

   e. Adhere to data access policies of the University or those established by law.

   f. Use University computer resources in a manner that is compliant with University policies and State and Federal law.

2. Prohibited Uses of University Computer Resources:

   a. Unauthorized or excessive personal use. Use may be excessive if it overburdens a network, results in substantial use of system capacity, or otherwise subjects the institution to increased costs or risks (employees additionally may be subject to discipline for unauthorized or excessive personal use of computer resources).

   b. Uses that interfere with the proper functioning of the University's information technology resources.

   c. Uses that unreasonably interfere with the ability of others to make use of University computer resources.
d. Attempting to gain or gaining unauthorized access to the computer system, or files of another.

e. Use of University computer resources to infringe the intellectual property rights of others.

f. Use of University computer resources for personal profit, except as permitted under the University's conflict of interest policy.

C. ENFORCEMENT OF ACCEPTABLE USE POLICY — Violation of the Acceptable Use Policy may result in a denial of access to University computer resources, and those disciplinary actions provided or authorized by the Collected Rules and Regulations of the University of Missouri.

Students who violate these guidelines will be subject to sanctions as outlined in section 200.010 of the Student Conduct Code. All such cases will be forwarded to the Primary Administrative Officer in the Student Life Office for appropriate action.

Faculty or staff who violate these guidelines will be subject to disciplinary measures as outlined within the University Policy Manuals.

Violations of some of the above guidelines may constitute a criminal offense. Individuals using UMKC computing resources are urged to review the University Policy Manual, Computer Crimes Bill passed by the Missouri State Legislature and the MOREnet Acceptable Use Policy, all of which are stored on-line for easy access.

Attendance Policy

General Principles

- Students are expected to attend and participate in classes.
- Advance notice of attendance policies of academic units and individual instructors should be given, and such notice should be in writing.
- Students should notify instructors of excused absences in advance, where possible.
- Students who have an excused absence are expected to make arrangements with instructors for alternative or make-up work. Such arrangements should be made in advance of the absence, where possible.
- Instructors should accommodate excused absences to the extent that an accommodation can be made that does not unreasonably interfere with the learning objectives of the course or unduly burden the instructor.
- Attendance policies shall be applied in a non-discriminatory manner.
- Enrollment as a student is required to attend any class unless otherwise pre-approved by the instructor.
- Instructors are responsible for verifying the class roster in Pathway throughout the term.
The Policy

Each academic unit and instructor may adopt an attendance policy appropriate to that unit, a particular field of study, or for a specific course. Such policy or policies must be consistent with the general principles, and must give students advance notice in writing. In the case of an academic unit, notice may be given in the appropriate section of the General Catalog, or in other materials provided to students for the purpose of informing them of the rules and regulations of the academic unit. In the case of an individual instructor, notice of an attendance policy should be given in the course syllabus.

If neither the academic unit nor the instructor has adopted an attendance policy, or if proper advance notice of the attendance policy was not given, the UMKC general attendance policy will govern. The general attendance policy is that students shall not be penalized for excused absences. "Excused absences" include absences due to illness of the student, illness of an immediate family member for whom the student must care, death of an immediate family member, religious observance (where the nature of the observance prevents the student from being present during class), representation of UMKC in an official capacity, and other compelling circumstances beyond the student's control. Students seeking an excused absence must provide documentation upon request to substantiate the excuse. Students with excused absences shall undertake appropriate make-up or alternative work to be provided by instructors of the courses in which excused absences were incurred.

Complaints concerning the application of an attendance policy or an instructor's attendance policy should be raised with the Department Chair of the instructor or with the Dean if there is no Department Chair or the instructor is the Department Chair. If the student or instructor is not satisfied with the resolution of the complaint, the matter may be appealed to the Dean and to the Division of Academic Affairs. Complaints concerning the adoption or modification of an attendance policy by an academic unit should be raised with the Division of Academic Affairs. Complaints are to be promptly addressed at each level of review.

This policy was approved July, 2002 and effective Fall, 2002; Revised Fall 2012

Electronic Grade Change Policy

Electronic grade changes can be completed by the instructor of record or by the Chair of the Department or the Dean of the Academic Unit via the online student information system. The deadline to initiate an electronic grade change must occur within one calendar year after a term has ended.

The following dates are applicable to all calendar year semester grade changes:

May 31 for the previous Spring Semester

July 31 for the previous Summer Semester

December 31 for the previous Fall Semester
Electronic grade changes cannot be submitted for the following types of changes. These require the use of a hard copy Grade or Course Change form for Past Terms.

Changing the credits associated with a course

Changing the grading basis associated with a course

Student has graduated

Retroactively adding, deleting, or swapping a course

Electronic grade change reports will be available to run on demand by each Academic Unit to notify Deans and Department Chairs when grades have been changed on a student’s record. The Registrar will send a grade change report at the end of every semester to capture all grade changes that have been submitted online.

Grade changes requested after one year will require a written appeal by the instructor and a signature from the Dean. The Registrar will review the grade change request and work with the Provost’s office to determine the acceptance of the instructor grade appeal.

Final Exam Policy
It is expected that every faculty member meet their classes during the scheduled final exam period in the scheduled room(s) for the final examination or other approved instructional activity.

Whenever circumstances make necessary a deviation from the announced final exam schedule, approval for such deviation must be obtained by the appropriate department chair and unit academic dean as well as the Registrar.

Faculty should remain available to students throughout the entire semester (including finals week). If circumstances necessitate faculty unavailability at any time during the semester, students should be notified, in writing, with alternate contact information (i.e., department head).

The Provost reserves the right to alter the final exam schedule due to extenuating circumstances.

Students having more than three final exams scheduled on one day may submit a written request to their Academic Dean’s Office to reschedule an exam. The Dean’s Office will coordinate with faculty to reschedule the exam.
**Grade Appeal Policy**

Students are responsible for meeting the standards of academic performance established for each course in which they are enrolled. The establishment of the criteria for grades and the evaluation of student academic performance are the responsibilities of the instructor.

This grade appeal procedure is available only for the review of allegedly capricious grading and not for review of the instructor's evaluation of the student's academic performance. Capricious grading, as that term is used here, comprises any of the following:

The assignment of a grade to a particular student on some basis other than the performance in the course.

The assignment of a grade to a particular student according to more exacting or demanding standards than were applied to other students in the course; *(Note: Additional or different grading criteria may be applied to graduate students enrolled for graduate credit in 300- and 400-level courses.)*

The assignment of a grade by a substantial departure from the instructor's previously announced standards.

**Appeal Procedures**

The student should first discuss the course grade fully with the instructor of the course. This must be done within six weeks after the beginning of the succeeding regular academic semester. If the matter cannot be resolved by consultation with the instructor, the student should use the departmental grade-appeal procedure. Every academic unit (school, College or department) must have a set of appeal procedures that are to be made available to students on request. These procedures will specify the manner in which the departmental review of the challenged grade will be conducted.

If the matter is not resolved at the departmental level, an appeal can be made to the academic dean, in accordance with the school's or College's appeals process. The decision of the dean will be communicated to the student, the instructor and the department.

If the matter is not resolved within the school or College, the student may appeal to the Provost. This appeal must be made within 10 consecutive calendar days after notification of the decision of the dean.

The Provost or designated representative shall review the full record of the case and appeal documents. At this level, the Provost may appoint an ad hoc academic appeals committee to review the record and provide advice on the matter. The decision of the Provost is final and will be communicated to the student, the instructor, the department and the dean of the school or College.
Leave of Absence Policy

UMKC’s Leave of Absence Policy provides a means for students to take an approved leave of absence from a degree program without being required to go through the re-admission process upon return to the University. Students who are approved for a leave of absence will be allowed to register for classes during the “priority registration time period” for the next semester they return from their approved leave of absence period. Students who are enrolled in the Interdisciplinary Ph.D. program in the School of Graduate Studies and the Schools of Dentistry, Law, Medicine, Nursing, Pharmacy, and the Conservatory of Music and Dance must adhere to their school’s leave of absence policies and procedures as these schools may have more stringent requirements or additional procedures.

1. Students who want to take an approved leave of absence are required to fill out the “Request for Leave of Absence Form” and are required to fill out a “Return from Leave of Absence Form” in order to be allowed to enroll and return to their previous academic program.

2. The deadline for applying for a leave of absence if the student has not been attending classes and is enrolled is no later than the fourth week of the semester. Students who need to apply for a leave of absence during a semester for which they have been attending will have until the last week of classes for the current term in accordance with the academic calendar.

The deadline for applying for a return from a leave of absence is 30 days prior to the first class date of the semester in which the student plans to enroll. Students who request a leave of absence that is not planned in advance due to a medical emergency or other extenuating circumstance beyond the control of the student will be reviewed on a case-by-case basis.

Academic program and graduation requirements may change during a student’s leave of absence. It is at the discretion of the college/school to define the program and graduation requirements once the student has been approved to return from a leave of absence. Some programs may approve students to return on a space available basis.

Eligibility requirements:

1. Be a degree seeking student
2. Be registered and enrolled in classes for the current term
3. Be eligible to enroll and be in academic good standing, on probation, or on continuing probation with his or her academic unit
4. Have submitted all outstanding high school or transfer transcripts if conditional admission was granted for the student to enroll for the previous semester
5. Provide a personal statement and official documentation for why a leave of absence is being requested

Please note: a student who returns from a leave of absence will continue on the same academic standing that was in place at the time that the leave of absence began.
Leave of Absence Duration

A leave of absence will be granted for a maximum of two semesters (e.g. Fall and Spring or Summer and Fall). A student can request an extension for his or her leave of absence; however, the request for an extension cannot extend more than one year beyond the original date requested. Students who do not return by the date noted on their approved leave of absence form and who are not granted an approved extension will be required to reapply through the Office of Admissions.

Leave of Absence Duration for Military Personnel

A leave of absence will be granted for all uniformed service members called to duty (whether voluntary or involuntary) for the duration of their time served. The student must fill out a Request for Leave of Absence form and provide the Registration and Records office with a copy of their written orders. Service members will be re-admitted to the university upon their return under the same re-admittance policies as all students who have been on a leave of absence from the university. Service members will not experience any added penalties from the University for fulfilling their military obligations.

Student Status during the Leave of Absence

A student granted a leave of absence retains his/her admitted student status. However, he/she is not registered and, therefore, does not have all the rights and privileges of a registered student and should be aware of the following consequences:

1. Financial Aid & Scholarships Office - A student is not eligible for any financial aid disbursements during the semesters while on leave of absence. A student on a leave of absence can be reported to lenders and loan service agencies as "non-attending" and may need to contact his/her lenders for information on possible repayment requirements, deferments and forbearances.

2. Enrollment verification requests - Enrollment verifications for other entities, such as parents' health or auto insurance companies, will also be reported as "non-attending."

3. Campus health - A student on a leave of absence for a particular semester is not registered for any credit hours and, therefore, not eligible to use the Student Health and Wellness Service Office.

4. Computing resources - A student on a leave of absence will not have access to computing resources, including computing labs. Students will be able to maintain their UMKC exchange email accounts.

5. Other student services – A student on a leave of absence will not have access to any campus or university service that is usually available only for currently enrolled students.

Leave of Absence Appeal

A student who has been denied a leave of absence or a student who has been granted a leave of absence but believes that either the period of leave awarded or the conditions specified are unreasonable, shall have a right to appeal the decision. All leave of absences that originate in the academic units of Medicine, Law, Pharmacy, Nursing, and Dentistry must continue through that
The process for filing an appeal is defined below.

**Process for Obtaining a Leave of Absence**

1. Schedule an appointment with your college/school to meet with an academic advisor or other designated administrator to review the leave of absence application’s impact on the following issues:
   1. Impact on progress toward degree.
   2. Catalog year and status after leave of absence.
   3. Previous semester’s academic standing at the time of the requested leave.
   4. Transfer policies, incomplete grades, agency requirements (e.g., state licensing/certification) and other academic issues, if applicable.
   5. Requesting a change of major at the same time the leave of absence is being requested.

Review the policy and complete the Request for Leave of Absence Request Form. Forms are available online by visiting http://www.umkc.edu/registrar/forms.asp. The deadline for applying for a leave of absence if the student has not been attending and is enrolled is no later than the fourth week of the semester. Students who need to apply for a leave of absence during a semester for which they have been attending will have until the last week of classes for the current term in accordance with the academic calendar.

Obtain the signature of the designated administrator in your college/school to approve the leave of absence.

Schedule a meeting with the Financial Aid & Scholarships Office to meet with a financial aid counselor if you are receiving financial aid and/or scholarships for the term in which you want to apply for a Leave of Absence.

Contact other offices, if applicable:

- International Student Affairs Office - International students must receive mandatory advisement, including signature, from the International Student Affairs Office (ISAO) to discuss the impact of the leave of absence on their immigration status. An international student on an approved leave of absence must contact the ISAO prior to his/her return to UMKC to clear visa status and request appropriate immigration documents.
- Financial Aid & Scholarships Office - Students who have received financial aid and/or scholarships should request information from the office about the impact a leave of absence has on current aid and future eligibility. Students should specifically request information about possible deferments for scholarships and/or loans.
- Cashier’s Office – Students who have outstanding balances on their accounts should talk with the Cashier’s Office about payment arrangements to ensure there will be no delinquencies, late charge or collections associated with their accounts during their extended leave of absence period. Once a plan has been created, the Cashier’s Office will provide sign-off on the leave of absence form which is returned to the next appropriate office for processing.
- Residential Life - Students living on campus must formally petition to be released from their Residential Life License Agreement. If future housing is needed, students must reapply for housing during the return from leave of absence if applicable.
- Campus Dining - Students with meal plans must formally apply for a release from their meal plan contract and should contact the Campus Dining sales office for further details.
- Veterans’ Services - Students with veterans' educational benefits and/or students leaving the university due to a military activation should contact Veterans’ Services in the Registration & Records Office for information and assistance.
- Parking Office - Students who purchased parking hangtags should notify the office in writing and return the decal and gate access card (if applicable) prior to leaving, so that the appropriate prorated refund can be issued.
- Campus Health & Counseling Services - Students on leave of absence are not eligible to purchase UMKC student health insurance. NOTE: A student covered under his/her parents' insurance policy most likely has to be a full-time student (enrolled in at least 12 credit hours) to qualify for coverage and should check with the appropriate company representative for further information.
- Residency Classification - Students with questions about maintaining his or her current status or applying for reclassification should contact the residency coordinator in the Office of Admissions.
- Fee Refunds Schedule – Students who request a Leave of Absence are subject to the established fee refund schedule. Students who wish to petition for an exception to the refund policy will need to attach the form to their Leave of Absence Request.

2. Submit the Request for Leave of Absence Form

- Once all required signature(s) have been obtained, the application is returned to the Registration & Records Office for review/approval. The student may return the form in person or the form may be sent through campus mail by the student's advising office.
- The student follows the established procedures for withdrawing if registered for the current term as well as the procedures for canceling any future term registrations during the requested leave of absence. Note: Students receiving financial aid must visit the Financial Aid & Scholarships Office for information on how withdrawal impacts their financial aid.
- The student updates his or her mailing address on the Pathway system, if necessary.

**UMKC’s Registration & Records Office Procedures for Processing a Leave of Absence:**

1. Notify the student of the result of his or her leave of absence request in writing to their UMKC email address.

2. Process the leave of absence request and note the expected return date in the Pathway system.

3. Notify the Academic Unit of the student’s approved leave of absence and the semester the student is expected to return.
Leave of Absence Appeal Process

1. All leave of absence appeals not originating from the Interdisciplinary Ph.D. program in the School of Graduate Studies, Schools of Medicine, Law, Pharmacy, Nursing, and Dentistry must be presented in writing to the Assistant Vice Chancellor of Student Affairs and Enrollment Management (AVCSAEM) within five (5) working days of receipt of the leave of absence denial and contain the following information:
   - The reason(s) for the appeal including any hardships the leave of absence denial poses to the student’s future continued academic status.
   - Any additional evidence deemed necessary to reverse the original decision.

2. On receipt of a formal appeal, the AVCSAEM or designee will:
   - Acknowledge the receipt of the appeal within five (5) working days on receipt of the written leave of absence appeal.
   - Investigate the claims outlined in the appeal.
   - Notify the student, in writing, of the decision within five (5) working days of acknowledgement of the written appeal.

3. The decision of the AVCSAEM or designee is final.

4. If a student considers that they have been unfairly or improperly treated in the appeals process, they have the right to file a grievance with the appropriate officer as outlined in the University of Missouri Student Grievance policy, http://www.umsystem.edu/ums/rules/collected_rules/grievance/ch390/grievance_390.010.

Steps for Returning from a Leave of Absence

1. A student should be physically, mentally and emotionally ready to return to school.

2. At the time of return, a student must complete a Return from Leave of Absence Form and must be eligible to register for the term in which they want to register (e.g. no financial holds, no academic holds, no disciplinary holds, etc.).

3. A student returning from a leave of absence that is earlier than the date originally agreed upon should provide notice to all applicable offices as soon as possible as noted on the Return from Leave of Absence Form.

4. A student must meet all financial aid requirements as outlined by the Financial Aid & Scholarships Office for the upcoming academic year or term for which the student is returning from their leave of absence.

5. The Student Affairs Office in conjunction with the other offices that require signatures from a return from leave of absence will assist in identifying any outstanding issues associated with advising, registration, etc.

6. The Registration & Records Office will send notification to the student's UMKC email address that their Leave of Absence has been processed.

The Leave of Absence policy is effective as of Summer 2010 and applies to all students, regardless of the catalog year the student entered the University.
Policy on Positive Work and Learning Environment

(330.080 Maintaining a Positive Work and Learning Environment; Executive Guideline No. 3, 7-18-97; Executive Order No. 3 replaced by policy stated in Bd. Min. 1-29-99.)

This policy is also available at http://www.umsystem.edu/ums/rules/collected_rules/personnel/ch330/330.080_maintaining_a_positive_work_and_learning_environment

1. The University of Missouri is committed to providing a positive work and learning environment where all individuals are treated fairly and with respect, regardless of their status. Intimidation and harassment have no place in a university community. To honor the dignity and inherent worth of every individual -- student, employee, or applicant for employment or admission -- is a goal to which every member of the university community should aspire and to which officials of the University should direct attention and resources.

2. With respect to students, it is the University's special responsibility to provide a positive climate in which students can learn. Chancellors are expected to provide educational programs and otherwise direct resources to creative and serious measures designed to improve interpersonal relationships, to help develop healthy attitudes toward different kinds of people, and to foster a climate in which students are treated as individuals rather than as members of a particular category of people.

3. With respect to employees, the strength we have as a university is directly related to maintaining a positive work environment throughout the institution. The University should provide a positive recruiting and work environment focused on the duties and skills of the work to be performed. It is the expectation of the University that all employees and potential employees will be treated on the basis of their contribution or potential contribution without regard to personal characteristics not related to competence, demonstrated ability, performance, or the advancement of the legitimate interests of the University. The General Officers are expected to provide training programs for supervisors to assist in achieving this objective.

4. With respect to violations of the policy, faculty, staff and students may utilize their respective grievance procedures approved by the Board of Curators. The approved grievance procedures are as follows: Grievance procedure in Section 370.010 for faculty; grievance procedure in Section 380.010 for staff; and grievance procedure in Section 390.010 for students, and each such procedure shall be deemed as amended to include grievances filed under this policy. This policy shall not be interpreted in such a manner as to violate the legal rights of religious organizations, or military organizations associated with the Armed Forces of the United States of America.
Policy on Student Records
(180.020 Student Records; Bd. Min. 6-10-59, p. 15,059; Bd. Min. 2-28-75; Amended 3-18-77; Bd. Min. 5-24-01.)

This policy is also available at http://www.umsystem.edu/ums/rules/collection_rules/information/ch180/180.020_student_records.

A. PURPOSE. The purpose of this regulation is to set forth the guidelines governing the protection of the privacy of student records and to implement The Family Educational Rights and Privacy Act of 1974 (Buckley Amendment; Pub. L. 93-380, as amended). These regulations apply to all students who are or have attended the University of Missouri.

B. DEFINITIONS.
2. "Attendance" at the University includes, but is not limited to: a. The period of time during which a student attends the University. Examples of dates of attendance include an academic year, a spring semester, or a first quarter. b. The term does not include specific daily records of a student's attendance at the University.
3. "Directory Information/Public Information" includes a student's name, address, e-mail address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, student level, and full- or part-time status.
4. "Disclosure" means to permit access to or the release, transfer, or other communication of personally identifiable information contained in education records to any party, by any means, including oral, written, or electronic means.
5. "Education Records"
   a. The term means those records that are:
      (1) Directly related to a student; and
      (2) Maintained by the University or by a party acting for the University.
   b. The term does not include:
      (1) Records that are kept in the sole possession of the maker of the record, and are not accessible or revealed to any other person except a temporary substitute for the maker of the record;
Records of a law enforcement unit of the University, but only if education records maintained by the University are not disclosed to the unit, and the law enforcement records are:

(a) Maintained separately from education records;

(b) Maintained solely for law enforcement purposes; and

(c) Disclosed only to law enforcement officials of the same jurisdiction;

Records relating to an individual who is employed by the University, that:

(a) Are made and maintained in the normal course of business;

(b) Relate exclusively to the individual in that individual's capacity as an employee; and

(c) Are not available for use for any other purpose.

Records relating to an individual in attendance at the University who is employed as a result of his or her status as a student are education records and not excepted under Section 180.020 B.5.b (3) of this definition.

Records on a student who is attending the University, that are:

(a) Made or maintained by a physician, psychiatrist, psychologist or other recognized professional or paraprofessional acting in his or her professional capacity or assisting in a paraprofessional capacity;

(b) Made, maintained, or used only in connection with treatment of the student; and

(c) Disclosed only to individuals providing the treatment. For the purpose of this definition, "treatment" does not include remedial educational activities or activities that are part of
the program of instruction at the University; and (5) Records that only contain information about an individual after he or she is no longer a student at the University.

6. "Parent" means a natural parent, an adoptive parent or the legal guardian of the student.

7. "Party" means an individual, agency, institution or organization.

8. "Personally identifiable information," includes:
   a. The student's name;
   b. The name of the student's parent or other family member;
   c. The address of the student or student's family;
   d. A personal identifier, such as the student's social security number or student number;
   e. A list of personal characteristics that would make the student's identity easily traceable; or
   f. Other information that would make the student's identity easily traceable.

9. "Record" means information or data recorded in any medium, including, but not limited to handwriting, print, computer media, video or audio tape, film, microfilm, and microfiche.

10. "Student" means any person who is or has been in attendance at the University where the University maintains education records or personally identifiable information on such person. However, the term does not include a person who has not been in attendance at the University of Missouri.

11. "University Official" is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.
C. NOTIFICATION OF ACCESS RIGHTS BY THE UNIVERSITY.

1. The University shall annually notify students currently in attendance of their rights under the Act.

2. Notice must be included in each campus' information manual, or other publication, and must inform students that they have the right to:
   a. Inspect and review the student's education records;
   b. Seek amendment of the student's education records that the student believes to be inaccurate, misleading, or otherwise in violation of the student's privacy rights;
   c. Consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that the Act and Section 180.020 M authorize disclosure without consent; and
   d. File with the Department of Education's Family Policy Compliance Office a complaint under Sections 99.63 and 99.64 of the Act concerning alleged failures by the University to comply with the requirements of the Act.

3. The notice must include all of the following:
   a. The procedure for exercising the right to inspect and review education records;
   b. The procedure for requesting amendment of records under Section 180.020 I; and
   c. A specification of criteria for determining who constitutes a school official and what constitutes a legitimate educational interest, as listed in Section 180.020 M.1.a.

4. The University may provide this notice by any means that are reasonably likely to inform the students of their rights. The University shall effectively notify students who are disabled.
D. RECORDS OF THE UNIVERSITY'S LAW ENFORCEMENT UNIT.

1. "Law enforcement unit" means any individual, office, department, division or other component of the University, such as the University of Missouri Police Department or noncommissioned security guards, that is officially authorized or designed by the University to:
   a. Enforce any local, state or federal law, or refer to appropriate authorities a matter for enforcement of any local, state or federal law against any individual or organization other than the University itself; or
   b. Maintain the physical security and safety of the University.

2. A component of the University does not lose its status as a "law enforcement unit" if it also performs other, non-law enforcement functions for the University, including investigation of incidents or conduct that constitutes or leads to a disciplinary action or proceedings against the student.

3. "Records of law enforcement unit" means those records, files, documents, and other materials that are: a. Created by a law enforcement unit; b. Created for a law enforcement purpose; and c. Maintained by the law enforcement unit.

4. "Records of law enforcement unit" does not mean:
   a. Records created by a law enforcement unit for a law enforcement purpose that are maintained by a component of the University other than the law enforcement unit; or
   b. Records created and maintained by a law enforcement unit exclusively for a non-law enforcement purpose, such as disciplinary action or proceeding conducted by the University.

5. The University may contact its law enforcement unit, orally or in writing, for the purpose of asking that unit to investigate a possible violation of, or to enforce, any local, state or federal law.

6. Education records, and personally identifiable information contained in education records, do not lose their status as education records and remain subject to the Act, as well as the disclosure provisions of Section 180.020 L, while in possession of the law enforcement unit.
E. RIGHTS OF INSPECTION AND REVIEW OF EDUCATION RECORDS.

1. The University shall provide students access to their educational records except as provided in Section 180.020 G.

2. The University shall comply with a request within a reasonable period of time, but in no case more than 45 days after the request has been received.

3. The University shall respond to reasonable requests for explanations and interpretations of those records.

4. If circumstances effectively prevent the student from exercising the right to inspect and review the student's education records, the University shall:
   a. Provide the student with a copy of the records requested; or
   b. Make other arrangements for the student to inspect and review the requested records.

5. The University shall not destroy any education records if there is an outstanding request to inspect and review the records under this section.

F. FEES FOR COPIES OF EDUCATIONAL RECORDS.

1. Unless the imposition of a fee effectively prevents a student from exercising the right to inspect and review the student's education records, the University may impose a reasonable fee for reproduction costs. This fee will not exceed the actual cost of production.

2. The University shall not charge a fee to search for or to retrieve the education records of a student.
G. LIMITATION ON ACCESS.

1. If the education records of a student contain information on more than one student, the student may inspect and review or be informed of only the specific information about that student.

2. The University will not permit a student to inspect and review education records that are:
   a. Financial records, including any information those records contain, of his or her parents;
   b. Confidential letters and confidential statements of recommendation placed in the education records of the student before January 1, 1975, as long as the statements are used only for the purposes for which they were specifically intended; and
   c. Confidential letters and confidential statements of recommendation placed in the student's education records after January 1, 1975, if:
      (1) The student has waived his or her right to inspect and review those letters and statements; and
      (2) Those letters and statements are related to the student's:
         (a) Admission to the University;
         (b) Application for employment; or
         (c) Receipt of an honor or honorary recognition.
H. WAIVERS.
1. A waiver under Section 180.020 G is valid only if:
   a. The University does not require the waiver as a condition for admission to or receipt of a service or benefit from the University; and
   b. The waiver is made in writing and signed by the student, regardless of age.
2. If a student has waived his or her rights under Section 180.020 G, the University shall:
   a. Give the student, on request, the names of the individuals who provided the letters and statements of recommendation; and
   b. Use the letters and statements of recommendation only for the purpose for which they were intended.
3. A waiver under Section 180.020 G may be revoked with respect to any actions occurring after the revocation. A revocation must be in writing.

I. AMENDMENT OF EDUCATION RECORDS.
1. If a student believes the education records relating to the student contain information that is inaccurate, misleading, or in violation of the student's rights of privacy, he or she may ask the University to amend the record by contacting the University Registrar.
2. The University shall decide whether to amend the record as requested within a reasonable time after the request is received.
3. If the University decides not to amend the record as requested, the University Registrar shall inform the student of its decision and of his or her right to a hearing under Section 180.020 J.

J. RIGHTS TO A HEARING.
1. The University shall give a student, on request, an opportunity for a hearing to challenge the content of the student's education records on the grounds that the information contained in the education records is in violation of the privacy rights of the student.
2. If, as a result of the hearing, the University decides that the information is inaccurate, misleading, or otherwise in violation of the privacy rights of the student, it shall:
   a. Amend the record accordingly; and
   b. Inform the student of the amendment in writing.
3. If, as a result of the hearing, the University decides that the information in the education record is not inaccurate, misleading, or otherwise in violation of the privacy rights of the student, it shall inform the student of the right to place a statement in the record
commenting on the contested information in the record or stating why he or she disagrees with the decision of the University, or both.

4. If the University places a statement in the education records of a student, it shall:
   a. Maintain the statement with the contested part of the record for as long as the record is maintained; and
   b. Disclose the statement whenever it discloses the portion of the record to which the statement relates.

K. CONDUCT OF A HEARING. Upon the request of the University official charged with custody of the records of the student, the hearing required by Section 180.020 J shall be conducted.

1. The request for a hearing shall be submitted in writing to the campus Chancellor, who will appoint a hearing officer or a hearing committee to conduct the hearing.
2. The hearing shall be conducted and decided within a reasonable period of time following the request for the hearing. The University shall give the student notice of the date, time, and place, reasonably in advance of the hearing.
3. The hearing shall be conducted and the decision rendered by an appointed hearing official or officials who shall not have a direct interest in the outcome of the hearing.
4. The student shall be afforded a full and fair opportunity to present evidence relevant to the hearing, and may be assisted or represented by individuals of his or her choice at his or her own expense, including an attorney.
5. The decision of the University shall be based solely upon the evidence presented at the hearing and shall include a summary of the evidence and the reasons for the decision.
6. The decision shall be rendered in writing within a reasonable period of time after the conclusion of the hearing.
7. Either party may appeal the decision of the hearing official or officials to the campus Chancellor.

L. CONDITIONS UNDER WHICH PRIOR CONSENT IS REQUIRED.

1. The student shall provide a signed and dated written consent before the University discloses personally identifiable information from the student's education records, except as provided in Section 180.020 M.
2. The written consent must:
   a. Specify the records that may be disclosed;
   b. State the purpose of the disclosure; and
Identify the party or class of parties to whom the disclosure may be made.

3. If a student so requests, the University shall provide him or her with a copy of the records disclosed.

M. CONDITIONS UNDER WHICH PRIOR CONSENT IS NOT REQUIRED.

1. The University may disclose personally identifiable information from an education record of a student without the consent required by Section 180.020 L if the disclosure meets one or more of the following conditions:
   a. The disclosure is to other University officials, including teachers, within the University who have been determined by the University to have legitimate educational interests. A University official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
   b. The disclosure is to officials of other schools or school systems in which the student seeks or intends to enroll, upon condition that the student is notified of the transfer, receives a copy of the record if requested, and has an opportunity for a hearing to challenge the content of the record.
   c. The disclosure is, subject to the requirements of Section 180.020 P, to authorized representatives of:
      (1) The Comptroller General of the United States;
      (2) The Attorney General of the United States;
      (3) The Secretary; or
      (4) State and local educational authorities.
   d. The disclosure is in connection with financial aid - defined as a payment of funds provided to an individual (or a payment in kind of tangible or intangible property to the individual) that is conditioned on the individual's attendance at the University - for which the student has applied or which the student has received, if the information is necessary for such purposes as to:
      (1) Determine eligibility for the aid;
(2) Determine the amount of the aid;

(3) Determine the conditions for the aid; or

(4) Enforce the terms and conditions of the aid.

e. The disclosure is to state and local officials or authorities to which such information is specifically required to be reported or disclosed pursuant to a state statute adopted prior to November 19, 1974.

f. The disclosure is to organizations conducting studies for, or on behalf of, educational agencies or institutions to develop, validate, or administer predictive tests, administer student aid programs, or improve instruction. Such studies are to be conducted in such a manner as will not permit the personal identification of students or their parents by persons other than representatives of the organization, and this information will be destroyed when no longer needed for the purpose for which the study is conducted.

g. The disclosure is to accrediting organizations to carry out their accrediting functions.

h. The disclosure is to parents of a dependent student, as defined in Section 152 of the Internal Revenue Code of 1986, as amended.

i. The disclosure is to comply with a lawfully issued subpoena.

(1) The University may disclose this information only if it makes a reasonable effort to notify the student of the order or subpoena in advance of compliance, so that the student may seek protective action, unless the disclosure is in compliance with –

(a) A federal grand jury subpoena and the court has ordered that the existence or the contents of the subpoena or the information furnished in response to the subpoena not be disclosed; or

(b) Any other subpoena issued for a law enforcement purpose and the court or other issuing agency has ordered that the existence or the contents of the subpoena or the information furnished in response to the subpoena not be disclosed.
(2) If the University initiates legal action against a parent or student, the University may disclose to the court, without a court order or subpoena, the education records of the student that are relevant for the University to process with the legal action as plaintiff.

(3) If a parent or eligible student initiates legal action against the University, the University may disclose to the court, without a court order or subpoena, the student's education records that are relevant for the University to defend itself.

j. The disclosure is in connection with a health or safety emergency, under the conditions described in Section 180.020 Q.

k. The disclosure is information the University has designated as "directory information," under the conditions described in Section 180.020 R.

l. The disclosure is to the student.

m. The disclosure, subject to the requirements in Section 180.020 S, is to a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense. The disclosure may include only the final results of the disciplinary proceeding conducted by the University with respect to that alleged crime or offense. The University may disclose the final results of the disciplinary proceeding, regardless of whether the University concluded a violation was committed.

n. (i) The disclosure, subject to the requirements in Section 180.020 S, is in connection with a disciplinary proceeding at the University providing that the University determines that:

(1) The student is an alleged perpetrator of a crime of violence or non-forcible sex offense; and

(2) With respect to the allegation made against him or her, the student has committed the violation of the University's rules or policies.

(ii) The University may not disclose the name of any other student, including a victim or witness, without the prior written consent of the other student.
This section applies only to disciplinary proceedings in which the final results were reached on or after October 7, 1998.

The disclosure is to a parent of a student under the age of twenty-one at the time of disclosure, and is limited to a determination that the student violated University regulations pertaining to the use or possession of alcohol or a controlled substance, as provided by and under the restrictions contained in Section 180.025.

N. RECORD KEEPING.

1. The University shall maintain a record of each request for access to and each disclosure of personally identifiable information from the education records of each student, for as long as the records are maintained.

2. For each request or disclosure the record must include:
   a. The parties who have requested or received personally identifiable information from the education records; and
   b. The legitimate interests the parties had in requesting or obtaining the information.

3. If the University discloses personally identifiable information from an education record with the understanding authorized under Section 180.020 O.2, the record of the disclosure required under this section must include:
   a. The names of the additional parties to which the receiving party may disclose the information on behalf of the University; and
   b. The legitimate interests under Section 180.020 M which each of the additional parties has in requesting or obtaining the information.

4. The following parties may inspect the record relating to each student:
   a. The student;
   b. The school official or his or her assistants who are responsible for the custody of the records; and
   c.
Those parties authorized in Section 180.020 M.1.a and M.1.c for the purposes of auditing the record keeping procedures of the University.

5. Paragraph 1 of this section does not apply if the request was from, or the disclosure was to:
   a. The student;
   b. A University official under Section 180.020 M.1.a;
   c. A party with written consent from the student;
   d. A party seeking directory information; or
   e. A party seeking or receiving the records as directed by a federal grand jury or other law enforcement subpoena and the issuing court or other issuing agency has ordered that the existence or the contents of the subpoena or the information furnished in response to the subpoena not be disclosed.

O. LIMITATIONS TO THE REDISCLOSURE OF INFORMATION.

1. The University may disclose personally identifiable information from an education record only on the condition that the party to whom the information is disclosed will not disclose the information to any other party without the prior consent of the student. The officers, employees, and agents of a party that receives information may use the information, but only for the purposes for which the disclosure was made.

2. This does not prevent the University from disclosing personally identifiable information with the understanding that the party receiving the information may make further disclosures of the information on behalf of the University if:
   a. The disclosures meet the requirements of Section 180.020 M; and
   b. The University has complied with the requirements of Section 180.020 N.3.

3. Section 180.020 O.1 does not apply to disclosures made pursuant to court orders, lawfully issued subpoenas, litigation under Section 180.020 M.1.i, to disclosures of directory information under Section 180.020 M.1.k, to disclosures made to a parent or student under Section 180.020 M.1.j, to disclosures made in connection with a disciplinary proceeding under Section 180.020 M.1.n, or to disclosures made to parents under Section 180.025.
4. Except for disclosures under Section 180.020 M.1.k, l, m, and n, the University shall inform a party to whom disclosure is made of the requirements of this section.

5. If the University determines that a third party improperly rediscloses personally identifiable information from education records in violation of Section 180.020 O.1, the University may not allow that third party access to personally identifiable information from education records for at least five years.

P. DISCLOSURE OF INFORMATION FOR FEDERAL OR STATE PROGRAM PURPOSES.

1. The officials listed in Section 180.020 M.1.c may have access to education records in connection with an audit or evaluation of federal or state supported education programs, or for the enforcement of or compliance with federal legal requirements which relate to those programs.

2. This information must:
   a. Be protected in a manner that does not permit personal identification of individuals by anyone except the officials referred to in part 1 of this section; and
   b. Be destroyed when no longer needed for the purposes listed in part 1 of this section.

3. Part 2 of this section does not apply if:
   a. The student has given written consent for the disclosure under Section 180.020 L; or
   b. The collection of personally identifiable information is specifically authorized by Federal law.
Q. RELEASE OF INFORMATION FOR HEALTH OR SAFETY EMERGENCIES. The University may release information from an education record to appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of a student or other persons. The factors which will be taken into account in determining whether the records may be released under this section include the following:

1. The seriousness of the threat to the health or safety of the student or other persons;

2. The need for such records to meet the emergency;

3. Whether the persons to whom such records are released are in a position to deal with the emergency; and

4. The extent to which time is of the essence in dealing with the emergency.

R. CONDITIONS FOR DISCLOSURE OF DIRECTORY INFORMATION.

1. The University may disclose directory information if it has given public notice to students in attendance at the University of:
   a. The types of personally identifiable information that the University has designated as directory information;

   b. A student's right to refuse to let the University designate any or all of those types of information about the student as directory information; and

   c. The period of time within which a student has to notify the University in writing that he or she does not want any or all of those types of information about the student designated as directory information.

2. The University may disclose directory information about former students without meeting the conditions of this section.
S. DEFINITIONS APPLYING TO THE NONCONSENSUAL DISCLOSURE OF RECORDS IN CONNECTION WITH DISCIPLINARY PROCEEDINGS CONCERNING CRIMES OF VIOLENCE OR NON-FORCIBLE SEX OFFENSES. As used in this part:

1. "Alleged perpetrator of a crime of violence" is a student who is alleged to have committed acts that would, if proven, constitute any of the following offenses or attempts to commit the following offenses that are defined in Title 18, "Crimes and Criminal Procedure," of the United States Code:
   a. Arson;
   
   b. Assault offenses;
   
   c. Burglary;
   
   d. Criminal homicide - manslaughter by negligence;
   
   e. Criminal homicide - murder and nonnegligent manslaughter;
   
   f. Destruction/damage/vandalism of property;
   
   g. Kidnapping/abduction;
   
   h. Robbery; or
   
   i. Forcible sex offenses.

2. "Alleged perpetrator of non-forcible sex offense" means a student who is alleged to have committed acts that, if proven, would constitute statutory rape or incest. These offenses are defined in Title 18, "Crimes and Criminal Procedure," of the United States Code.

3. "Final results" means a decision or determination, made by an honor court or council, committee, commission, or other entity authorized to resolve disciplinary matters within the University. The disclosure of final results must include only the name of the student, the violation committed, and any sanction imposed by the University against the student.
4. "Sanction imposed" means a description of the disciplinary action taken by the University, the date of its imposition, and its duration.

5. "Violation committed" means the University rules or code sections that were violated and any essential finding supporting the University's conclusion that the violation was committed.

Student Conduct
(200.010 Standard of Conduct Amended Bd. Min. 3-20-81; Bd. Min. 8-3-90, Bd. Min 5-19-94; Bd. Min. 5-24-01, Bd. Min. 7-27-12.)

This policy is also available at http://www.umsystem.edu/ums/rules/collection_rules/programs/ch200/200.010_standard_of_conduct.

A student enrolling in the University assumes an obligation to behave in a manner compatible with the University's function as an educational institution and voluntarily enters into a community of high achieving scholars. Consequently, students assume new privileges along with new responsibilities in accordance with the University’s mission and expectations.

These expectations have been established in order to protect a specialized environment conducive to learning which fosters integrity, academic success, personal and professional growth, and responsible citizenship.

A. Jurisdiction of the University of Missouri generally shall be limited to conduct which occurs on the University of Missouri premises or at University-sponsored or University-supervised functions. However, nothing restrains the administration of the University of Missouri from taking appropriate action, including, but not limited to, the imposition of sanctions under Section 200.020(C), against students for conduct on or off University premises in order to protect the physical safety of students, faculty, staff, and visitors.

B. Conduct for which students are subject to sanctions falls into the following categories:

1. Academic dishonesty, such as cheating, plagiarism, or sabotage. The Board of Curators recognizes that academic honesty is essential for the intellectual life of the University. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. In all cases of academic dishonesty, the instructor shall make an academic judgment about the student's grade on that work and in that course. The instructor shall report the alleged academic dishonesty to the Primary Administrative Officer.

   a. The term cheating includes but is not limited to: (i) use of any unauthorized assistance in taking quizzes, tests, or examinations; (ii) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; (iii) acquisition or possession without permission of tests or other academic material belonging to a member of the University faculty or staff; or (iv) knowingly providing any
unauthorized assistance to another student on quizzes, tests, or examinations.

b. The term **plagiarism** includes, but is not limited to: (i) use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference; (ii) unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or (iii) unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

c. The term **sabotage** includes, but is not limited to, the unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University community.

2. **Forgery, alteration, or misuse** of University documents, records or identification, or knowingly furnishing false information to the University.

3. **Obstruction or disruption** of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.

4. **Physical abuse, threats of violence**, or other conduct which threatens or endangers the health or safety of any person.

5. **Nonconsensual sexual behavior** including but not limited to rape; sexual assault; nonconsensual sexual touching of the genitals, breast or anus of another person or the touching of another with one’s own genitals whether directly or through the clothing; or exposing one’s genitals to another under circumstances in which he or she should reasonably know that his or her conduct is likely to cause affront or alarm, or sexual harassment.

6. **Stalking** another by following or engaging in a course of conduct with no legitimate purpose that puts another person reasonably in fear for his or her safety or would cause a reasonable person under the circumstances to be frightened, intimidated or emotionally distressed.

7. **Harassment** by engaging in a course of conduct directed at a specific person that serves no legitimate purpose that would cause a reasonable person under the circumstances to be frightened, intimidated, or emotionally distressed.

8. **Invasion of privacy** by photographing or recording (using electronic or other means) another person in a state of full or partial nudity in a place where one would have a reasonable expectation of privacy without that person’s consent, and distributing or transmitting that image without that person’s consent.

9. **Participating in attempted or actual theft** of, damage to, or possession without permission of property of the University or of a member of the University community or of a campus visitor.

10. **Unauthorized possession**, duplication or use of keys to any University facilities or unauthorized entry to or use of University facilities.

11. **Violation of University policies**, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.
12. **Manufacture, use, possession, sale or distribution of alcoholic beverages** or any controlled substance without proper prescription or required license or as expressly permitted by law or University regulations, including operating a vehicle on University property, or on streets or roadways adjacent to and abutting a campus, under the influence of alcohol or a controlled substance as prohibited by law of the state of Missouri.

13. **Disruptive or disorderly conduct** or lewd, indecent, or obscene conduct or expression.

14. **Failure to comply** with directions of University officials acting in the performance of their duties.

15. **The illegal or unauthorized possession or use of firearms**, explosives, other weapons, or hazardous chemicals.

16. **Misuse in accordance with University policy of computing resources**, including but not limited to:
   a. Actual or attempted theft or other abuse.
   b. Unauthorized entry into a file to use, read, or change the contents, or for any other purpose.
   c. Unauthorized transfer of a file.
   d. Unauthorized use of another individual's identification and password.
   e. Use of computing facilities to interfere with the work of another student, faculty member, or University official.
   f. Use of computing facilities to interfere with normal operation of the University computing system.
   g. Knowingly causing a computer virus to become installed in a computer system or file.

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**Rules of Procedures in Student Conduct Matters**

(200.020 Rules of Procedures in Student Conduct Matters Bd. Min. 11-8-68, Amended Bd. Min. 3-20-81; Bd. Min. 12-8-89, Amended 5-19-94; Bd. Min. 5-24-01; Bd. Min. 7-27-12.)


A. **Preamble.** The following rules of procedure in student conduct matters are hereby adopted in order to insure insofar as possible and practicable (a) that the requirements of procedural due process in student conduct proceedings will be fulfilled by the University, (b) that the immediate effectiveness of Section 10.030, which is Article V of the Bylaws of the Board of Curators relating to student conduct and sanctions may be secured for all students in the University of Missouri, and (c) that procedures shall be definite and determinable within the University of Missouri.

B. **Definitions.** As used in these rules, the following definitions shall apply:

   1. **Primary Administrative Officers.** As used in these procedures, the Chief Student Affairs Administrator on each campus is the Primary Administrative Officer except in cases of academic dishonesty, where the Chief Academic
Administrator is the Primary Administrative Officer. Each Primary Administrative Officer may appoint designee(s) who are responsible for the administration of these conduct procedures, provided all such appointments must be in writing, filed with the Chancellor of the campus, and the office of General Counsel. The Primary Administrator's Office will certify in writing that the given designee has been trained in the administration of student conduct matters.

2. **Student Panel.** A panel of students appointed by the Chancellor, from which shall be selected by the Chair, upon the request of a student charged before the Student Conduct Committee, not more than three students to serve with the Student Conduct Committee.

3. **Student.** A person having once been admitted to the University who has not completed a course of study and who intends to or does continue a course of study in or through one of the campuses of the University. For the purpose of these rules, student status continues whether or not the University's academic programs are in session.

4. **Student Conduct Committee.** As used in these procedures, "Student Conduct Committee," hereinafter referred to as the Committee, is that body on each campus which is authorized to conduct hearings and to make dispositions under these procedures or a Hearing Panel of such body as herein defined.

C. **Sanctions.**

1. The following sanctions may be imposed upon any student found to have violated the Student Conduct Code; more than one of the sanctions may be imposed for any single violation:

   a. **Warning.** A notice in writing to the student that the student is violating or has violated institutional regulations.

   b. **Probation.** A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe sanctions if the student is found to be violating any institutional regulation(s) during the probationary period.

   c. **Loss of Privileges.** Denial of specified privileges for a designated period of time.

   d. **Restitution.** Compensation for loss, damage, or injury to the University or University property. This may take the form of appropriate service and/or monetary or material replacement.

   e. **Discretionary Sanctions.** Work assignments, service to the University, or other related discretionary assignments.

   f. **Residence Hall Suspension.** Separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.

   g. **Residence Hall Expulsion.** Permanent separation of the student from the residence halls.

   h. **University Dismissal.** An involuntary separation of the student from the institution for misconduct apart from academic requirements. It does not imply or state a minimum separation time.
i. University Suspension. Separation of the student from the University for a
definite period of time, after which the student is eligible to return.
Conditions for readmission may be specified.
j. University Expulsion. Permanent separation of the student from the
University.

2. Temporary Suspension. The Chancellor or Designee may at any time
temporarily suspend or deny readmission to a student from the University pending
formal procedures when the Chancellor or Designee finds and believes from
available information that the presence of a student on campus would seriously
disrupt the University or constitute a danger to the health, safety, or welfare of
members of the University community. The appropriate procedure to determine
the future status of the student will be initiated within seven calendar days.

D. Records Retention. Student conduct records shall be maintained for five years after
University action is completed.

E. Policy and Procedures.

1. Preliminary Procedures. The Primary Administrative Officer/Designee(s) shall
investigate any reported student misconduct before initiating formal conduct
procedures and give the student the opportunity to present a personal version of
the incident or occurrence. The Primary Administrative Officer/Designee(s) may
discuss with any student such alleged misconduct and the student shall attend
such consultation as requested by the Primary Administrative
Officer/Designee(s). The Primary Administrative Officer/Designee(s), in making
an investigation and disposition, may utilize student courts and boards and/or
divisional deans to make recommendations.

2. Informal Dispositions. The Primary Administrative Officer/Designee(s) shall
have the authority to make a determination and to impose appropriate sanctions
and shall fix a reasonable time within which the student shall accept or reject a
proposed informal disposition. A failure of the student either to accept or reject
within the time fixed may be deemed by the University to be an acceptance of the
determination, provided the student has received written notice of the proposed
determination and the result of the student's failure to formally reject and, in such
event, the proposed disposition shall become final upon expiration of such time. If
the student rejects informal disposition it must be in writing and shall be
forwarded to the Committee. The Primary Administrative Officer/Designee(s)
may refer cases to the Committee without first offering informal disposition.

3. Formal Procedure and Disposition.
   a. Student Conduct Committee:
   (1) The Committee shall be appointed by the Chancellor and shall have the
       authority to impose appropriate sanctions upon any student or students
       appearing before it.
   (2) The Committee, when appropriate or convenient, may be divided by
       the Chair of the Committee into Hearing Panels, each panel to be
       composed of at least five Committee members, which may include a
       maximum of two students, present at the hearing, including a designated
       chair. A Hearing Panel has the authority of the whole Committee in those
cases assigned to it. The Chair of the Committee or of a Hearing Panel
shall count as one member of the Committee or Hearing Panel and have the same rights as other members.

(3) Each Chancellor shall appoint a panel of students, to be known as the Student Panel. Upon written request of a student charged before the Committee, made at least seventy-two (72) hours prior to the hearing, the Chair of the Committee or Hearing Panel shall appoint from the Student Panel not more than three students to sit with the Committee or two students to sit with the Hearing Panel (as stated in 3.a.(2)) for that particular case. When students from the Student Panel serve at the request of a student charged, they shall have the same rights as other members of the Committee or Hearing Panel.

b. General Statement of Procedures. A student charged with a breach of the Student Conduct Code is entitled to a written notice and a formal hearing unless the matter is disposed of under the rules for informal disposition. Student conduct proceedings are not to be construed as judicial trials and need not wait for legal action before proceeding; but care shall be taken to comply as fully as possible with the spirit and intent of the procedural safeguards set forth herein. The Office of the General Counsel shall be legal adviser to the Committee and the Primary Administrative Officer/Designee(s).

c. Notice. The Primary Administrative Officer/Designee(s) shall initiate student conduct proceedings by arranging with the Chair to call a meeting of the Committee and by giving written notice by certified mail or personal delivery to the student charged with misconduct. The notice shall set forth the date, time, and place of the alleged violation and the date, time, and place of the hearing before the Committee. Notice by certified mail may be addressed to the last address currently on record with the University. Failure by the student to have a current correct local address on record with the University shall not be construed to invalidate such notice. The notice shall be given at least seven (7) consecutive days prior to the hearing, unless a shorter time be fixed by the Chair for good cause. Any request for continuance shall be made in writing to the Chair, who shall have the authority to continue the hearing if the request is timely and made for good cause. The Chair shall notify the Primary Administrative Officer/Designee(s) and the student of the new date for the hearing. If the student fails to appear at the scheduled time, the Committee may hear and determine the matter.

4. Right to Petition for Review: (other than University expulsion, University dismissal, or University suspension).

a. In all cases where the sanction imposed by the Committee is other than University expulsion, University dismissal, or University suspension, the Primary Administrative Officer/Designee(s), the charged student or the alleged victim, (referred to hereafter as the “complainant”) in the case of nonconsensual sexual behavior may petition the Chancellor or Designee in writing for a review of the decision within five (5) calendar days after written notification. A copy of the Petition for Review must also be served
upon the nonappealing party or parties within such time. The Petition for Review must state the grounds or reasons for review in detail, and the nonappealing party or parties may answer the petition within five (5) calendar days.

b. The Chancellor or Designee may grant or refuse the right of review. In all cases where the Petition for Review is refused, the action of the Committee shall be final. If the Chancellor or Designee reviews the decision, the action of the Chancellor shall be final unless it is to remand the matter for further proceedings.

5. **Right of Appeal** (University expulsion, University dismissal, or University suspension only).
   
   a. When a charged student is expelled, dismissed, or suspended from the University by the Committee, the Primary Administrative Officer/Designee(s), the charged student or the complainant in the case of nonconsensual sexual behavior may appeal such decision to the Chancellor or Designee by filing written notice of appeal stating the grounds or reasons for appeal in detail with the Chancellor within ten (10) calendar days after notification of the decision of the Committee. A copy of the Notice of Appeal will contemporaneously be given by the charged student to the Primary Administrative Officer/Designee(s) and complainant or by the Primary Administrative Officer/Designee(s) to the charged student and complainant, or by the complainant to the charged student and Primary Administrative Officer/Designee(s). The appealing party may file a written memorandum for consideration by the Chancellor with the Notice of Appeal, and the Chancellor may request a reply to such memorandum by the appropriate party.

   b. The Chancellor or Designee shall review the record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify each party in writing of the decision on the appeal. The action of the Chancellor shall be final unless it is to remand the matter for further proceedings.

6. **Status During Appeal.** In cases of suspension, dismissal, or expulsion where a Notice of Appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not seriously disrupt the University or constitute a danger to the health, safety, or welfare of members of the University community. In such event, however, any final sanctions imposed shall be effective from the date of the action of the Committee.

7. **Student Honor System.** Forums under the student honor systems established for investigating facts, holding hearings, and recommending and imposing sanctions are authorized when the student honor code or other regulations containing well defined jurisdictional statements and satisfying the requirements of Section 10.030, which is Article V of the Bylaws of the Board of Curators, have been reduced to writing and have been approved by the Chancellor and the Board of
Curators and notice thereof in writing has been furnished to students subject thereto. Though the student honor system has jurisdiction, together with procedures set forth therein, instead of the Primary Administrative Officer/Designee(s), the standard of conduct called for in any such student honor system shall be deemed to contain at a minimum the same standards set forth in Section 200.010, entitled Standards of Conduct. Procedures shall satisfy the requirements of the Board of Curators' Bylaws, Section 10.030, which is Article V, and shall contain procedures herein before stated insofar as appropriate and adaptable to the particular situation and shall be approved by the Chancellor and the General Counsel. Students subject to student honor systems shall have the rights of appeal as set forth in Section 200.020 E.6 and 7.

F. Hearing Procedures.

1. Conduct of Hearing. The Chair shall preside at the hearing, call the hearing to order, call the roll of the Committee in attendance, ascertain the presence or absence of the student charged with misconduct, read the notice of hearing and charges and verify the receipt of notices of charges by the student, report any continuances requested or granted, establish the presence of any adviser or counselor of the student, and call to the attention of the student charged and the adviser any special or extraordinary procedures to be employed during the hearing and permit the student to make suggestions regarding or objections to any procedures for the Conduct Committee to consider.

In cases where the misconduct charged is nonconsensual sexual behavior, the complainant will be afforded the same rights in the hearing as the accused student as described below. In such cases, questions between the accused student and the complainant will be made through the Chair.

a. Opening Statements.
   (1) The Primary Administrative Officer/Designee(s) shall make opening remarks outlining the general nature of the case and testify to any facts the investigation has revealed.
   (2) The student charged may make a statement to the Committee about the charge at this time or at the conclusion of the University's presentation. In cases of nonconsensual sexual behavior the complainant may likewise make a statement to the Committee at either time.

b. University Evidence.
   (1) University witnesses are to be called and identified or written reports of evidence introduced as appropriate.
   (2) The Committee may question witnesses at any time.
   (3) The student charged or, with permission of the Committee, the adviser or counselor may question witnesses or examine evidence at the conclusion of the University's presentation. In cases of nonconsensual sexual behavior the complainant may also question witnesses or examine evidence at the conclusion of the University’s presentation and the student charged’s questions. In such cases, questions between the charged student and the complainant will be made through the Chair.
c. Charged Student Evidence.
   (1) If the student charged has not elected to make a statement earlier under a.(2) above, the student shall have the opportunity to make a statement to the Committee about the charge.
   (2) The student may present evidence through witnesses or in the form of written memoranda.
   (3) The Committee may question the student or witnesses at any time. The Primary Administrative Officer/Designee(s) may question the student or witnesses. In cases of nonconsensual sexual behavior the complainant may question witnesses. In such cases, questions between the complainant and the charged student will be made through the Chair.

d. Complainant’s Evidence (in cases of nonconsensual sexual behavior)
   (1) If the complainant has not elected to make a statement earlier under a.(2) above, the complainant shall have the opportunity to make a statement to the Committee about the charge.
   (2) The complainant may present evidence through witnesses or in the form of written memoranda.
   (3) The Committee may question the complainant or witnesses at any time. The charged student may question witnesses. Questions between the charged student and the complainant will be made through the Chair.

e. Rebuttal Evidence. The Committee may permit the University or the charged student, or in cases of nonconsensual sexual behavior, the complainant to offer a rebuttal of the other's presentation(s).

f. Rights of Student Conduct Committee. The Committee shall have the right to:
   (1) Hear together cases involving more than one student which arise out of the same transaction or occurrence, but in that event shall make separate findings and determinations for each student;
   (2) Permit a stipulation of facts by the Primary Administrative Officer/Designee(s) and the student involved;
   (3) Permit the incorporation in the record by reference of any documentation, produced and desired in the record by the University or the student charged;
   (4) Question witnesses or challenge other evidence introduced by either the University or the student at any time;
   (5) Hear from the Primary Administrative Officer/Designee(s) about dispositions made in similar cases and any dispositions offered to the student appearing before the Committee;
   (6) Call additional witnesses or require additional investigation;
   (7) Dismiss any action at any time or permit informal disposition as otherwise provided;
   (8) Permit or require at any time amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Committee before final determination of the case; provided, however, that in such event the Committee shall grant to the student or Primary Administrative Officer/Designee(s) such time as the Committee may
determine reasonable under the circumstances to answer or explain such additional matters;
(9) Dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Chair of the Committee;
(10) Suspend summarily students from the University who, during the hearing, obstruct or interfere with the course of the hearing or fail to abide by the ruling of the Chair of the Committee on any procedural question or request of the Chair for order.

2. **Rights of Students Charged Upon Hearing and of Complainants in the Case of Nonconsensual Sexual Behavior.** A student appearing before a Committee shall have the right to:
   a. Be present at the hearing;
   b. Have an adviser or counselor and to consult with such adviser or counselor during the hearing;
   c. Hear or examine evidence presented to the Committee;
   d. Question witnesses present and testifying;
   e. Present evidence by witnesses or affidavit;
   f. Make any statement to the Committee in mitigation or explanation of the conduct in question;
   g. Be informed in writing of the findings of the Committee and any sanctions it imposes; and
   h. Request review or appeal to the Chancellor as herein provided.

3. **Determination by the Student Conduct Committee.** The Committee shall then make its findings and determinations based on the preponderance of the evidence in executive session out of the presence of the Primary Administrative Officer/Designee(s) and the student charged. Separate findings are to be made:
   a. As to the conduct of the student, and
   b. On the sanctions, if any, to be imposed. No sanctions shall be imposed on the student unless a majority of the Committee present is convinced by the preponderance of the evidence that the student has committed the violation charged.

4. **Official Report of Findings and Determinations.** The Committee shall promptly consider the case on the merits and make its findings and determination and transmit them to the Primary Administrative Officer/Designee(s) and the student charged forthwith.

5. **Other Procedural Questions.** Procedural questions which arise during the hearing not covered by these general rules shall be determined by the Chair, whose ruling shall be final unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.

6. **General Rules of Decorum.** The following general rules of decorum shall be adhered to:
   a. All requests to address the Committee shall be addressed to the Chair.
   b. The Chair will rule on all requests and points of order and may consult with Committee's legal adviser prior to any ruling. The Chair's ruling shall be final and all participants shall abide thereby, unless the Chair shall
present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.

c. Rules of common courtesy and decency shall be observed at all times.
d. An adviser or counselor may be permitted to address the Committee at the discretion of the Committee. An adviser or counselor may request clarification of a procedural matter or object on the basis of procedure at any time by addressing the Chair after recognition.

7. **Record of Hearing.** An audio, video, digital, or stenographic record of the hearing shall be maintained. The notice, exhibits, hearing record, and the findings and determination of the Committee shall become the "Record of the Case" and shall be filed in the Office of the Primary Administrative Officer/Designee(s) and for the purpose of review or appeal be accessible at reasonable times and places to both the University and the student(s) entitled to review or appeal.

8. **Crimes of Violence and Non-Forcible Sex Offences.** In cases of alleged crimes of violence and non-forcible sex offences:

   a. The alleged victim is entitled to have an adviser or counselor present during his or her participation in the hearing.
   b. The alleged victim and the accused shall be informed of the outcome of any campus disciplinary proceeding brought alleging a crime of violence or non-forcible sexual assault.
Academic Standing & Graduation

Academic Probation & Ineligibility
Undergraduate degree-seeking students' academic status is assessed at the end of every term, whether the student is full-time or part-time for that term. A summer session is considered the same as a semester for the purpose of the following regulations:

1. In general, students will be placed on academic probation whenever their official UM grade-point average falls below 2.0 (C average). Some academic units may have a higher grade-point average requirement. First time college freshman admitted to UMKC on the basis of high school records, who have grade-point averages between 1.50 and 1.99 at the end of the first semester of either full- or part-time study will be placed on academic warning. Students on academic warning must achieve an overall 2.0 average by the end of their second semester or be placed on regular probation. After that, they would be subject to the regular probation requirements.

2. Students on academic probation will be restored to good standing whenever the UM grade-point average reaches 2.0 or the GPA level established by their academic units.

3. Students on academic probation must maintain the grade-point average required by their academic units during each subsequent semester or summer session while they are on probation. Otherwise they are ineligible to re-enroll without the approval of the academic units.

4. Students on academic probation must remove themselves from probation within three successive semesters (including the semester in which they originally were placed on probation). Otherwise they are ineligible to re-enroll without the approval of the academic units.

5. Students are responsible for knowing their academic status by referring to Pathway and their permanent transcript.

Dean's List
The Dean’s List is a unit-based student-centric recognition of excellent academic performance. Students must complete a minimum full-time program of 12 graded hours to qualify for the dean’s list. The credit/no credit option may not be used as part of the 12 graded hours. The permanent academic records for qualifying students are annotated to reflect this distinction. Official grade reports indicate students who are candidates for the Dean’s List.

Criteria for determining the GPA required for a student to be included on their unit Dean’s List will be determined by the unit Dean. The specific criteria will be published in the unit undergraduate catalog.

Dean’s List criteria will be reviewed annually by each academic unit (College/School) and changes in requirements will be submitted in writing to the Registrar by February 1 each year for inclusion in the next academic catalog.

Graduation
Students who anticipate graduating must file an application for graduation before the end of the fourth week of the semester in which they intend to graduate. Commencement is optional and participating in commencement does not mean that a student has graduated. The application for
graduation triggers a degree check. The degree check is conducted following the recording of
grades for the semester in which the student anticipates graduation. All degree requirements must
be fulfilled, including documentation of all requirements in UMKC’s Registration & Records
Office before the next semester after anticipated graduation begins. Diplomas may be picked up
in person in the Registration & Records Office beginning 40 days following the last day of the
semester. Diplomas that are not picked up in person will be mailed two weeks after they are
initially made available. Replacement and duplicate diplomas can be ordered for a small fee
from UMKC Registration & Records Office.

Latin Honors
Graduation with Latin Honors
Students are eligible to be awarded their degrees with Latin Honors (Summa Cum Laude, Magna
Cum Laude, Cum Laude) as determined by each of the academic units (College/School) using
fixed overall GPA requirements. These fixed GPA requirements will be reviewed annually by
each academic unit (College/School) and changes in requirements will be submitted in writing to
the Registrar by February 1 each year for inclusion in the next academic catalog.

The calculation for Latin Honors will be made using the GPA of the last 60 hours earned.
Students may be awarded one Latin Honors regardless of the number of degrees the student
earns.

Latin Honors may be published for commencement but will be provisional until the degree is
conferred.

Multiple Major and Double Degree Policy
A multiple (double or triple) major may be earned when a student completes two or more full
majors, generally within the 120 hours required for a single degree. The specific major
requirements of each major must be fulfilled. The diploma will indicate all majors. If the two or
more degree programs are administered by different academic units, the major requirements of
each academic program must be fulfilled. The general education requirements must be fulfilled
as specified by the department or academic unit responsible for the primary major only. The
double or multiple major is only available in B.A./B.A. or B.S./B.S. combinations.

A double degree may be earned when a student completes a minimum of 150 hours, completing
the general education and major requirements for each of two majors. Students who earn a
double degree will receive two diplomas simultaneously. If the two degree programs are
administered by different academic units, the general degree requirements and major
requirements of both academic units must be completed.

The B.A./M.D. dual degree program has different requirements and is subject to separate
regulations. See the School of Medicine section of the catalog.

All dual degree programs must follow the established guidelines in the UMKC catalog.
Equal Opportunity Guidelines and Procedures

Equal Opportunity Guidelines

Guidelines on Sex Discrimination

The University of Missouri-Kansas City complies with Title IX of the Educational Amendment of 1972 which ensures that all employees and students are not victims of sex discrimination. To ensure compliance with this policy of nondiscrimination on the basis of sex, the University has taken the following steps:

1. The University recruits employees of both sexes for all jobs except where sex is a bona fide occupational qualification.
2. Advertisements in journals, newspapers and other media for employment do not express a sexual preference unless sex is a bona fide occupational qualification for the position.
3. Personnel policies for the University explicitly state that there will be no discrimination on account of sex.
4. Promotion and job advancement opportunities except where governed by the rules and regulations of tenure are afforded to all employees regardless of sex. The University makes no distinction based upon sex in employment opportunities, wages, hours or other conditions of employment.
5. Policies and practices of the University assure that appropriate physical facilities are available for both sexes.
6. Women employees are not penalized in their conditions of employment because of time away from work on account of child bearing. Following childbirth and upon signifying intent to return within a reasonable time, such female employees are reinstated to their original jobs or positions of like status and pay without loss of service credit.
7. The wage schedule and job classifications of the University are not related to or based on the sex of the employee.
8. The University has issued policies and guidelines to ensure an educational and work environment that is free from sexual harassment.
9. The University has taken the above steps to alleviate sex discrimination within the institution. Those employees who believe they have been discriminated against on the basis of sex may use the appropriate internal grievance procedure.

Guidelines on Discrimination on the Basis of Religion or National Origin

Members of various religious and ethnic groups, primarily but not exclusively of Eastern, Middle and southern European ancestry, such as Muslim, Jewish, Catholic, Italian, Greek and Slavic groups, continue to be excluded from executive, middle management and other job levels because of discrimination based on their religion or national origin. Under the Equal Opportunity Clause contained in section 202 of Executive Order 11246 as amended, the University of Missouri-Kansas City does not discriminate against employees or applicants for employment because of religion or national origin, and employees are treated during employment without regard to their religion or national origin. To ensure this, the University of Missouri-Kansas City has taken the following steps:
1. The University's Office of Equal Opportunity/Affirmative Action and external communications media have made known that equal employment opportunity without regard to religion or national origin is the policy of the University. All employees of the University must be committed to equal employment for all persons without regard to religion or national origin.

2. In all of its recruitment sources, the University of Missouri-Kansas City expresses that it is committed to equal employment opportunity without regard to religion or national origin.

3. Through local and national publications, as well as through its Web site job listings at http://www.umkc.edu/html/acjobs and http://www.umkc.edu/adminfinance/hr/jobs/index.asp, the University informs the public, including community, religious and ethnic groups, of employment opportunities available at the University of Missouri-Kansas City.

4. The University of Missouri-Kansas City accommodates the religious observance and practices of all employees when reasonably possible.

5. The University has taken the above steps to eliminate discrimination based on religion or national origin. Employees who believe they have been discriminated against on the basis of religion or national origin may use the University's internal grievance procedures.

Guidelines on Sexual Harassment

(Executive Order No. 20, 3-17-81; 330.060 Sexual Harassment; Bd. Min. 3-18-93.)

This policy is also available at

This University of Missouri policy aims for an increased awareness regarding sexual harassment by making available information, education and guidance on the subject for the University community.

A. Policy Statement. It is the policy of the University of Missouri, in accord with providing a positive, discrimination-free environment, that sexual harassment in the work place or educational environment is unacceptable conduct. Sexual harassment is subject to discipline, up to and including separation from the institution.
B. Definition. Sexual harassment is defined for this policy as either
1. Unwelcome sexual advances or requests for sexual activity by a University employee in a position of power or authority to a University employee or a member of the student body, or
2. Other unwelcome verbal or physical conduct of a sexual nature by a University employee or a member of the student body to a University employee or a member of the student body, when:
   a. Submission to or rejection of such conduct is used explicitly or implicitly as a condition for academic or employment decisions; or
   b. The purpose or effect of such conduct is to interfere unreasonably with the work or academic performance of the person being harassed; or
   c. The purpose or effect of such conduct, to a reasonable person, is to create an intimidating, hostile, or offensive environment.

C. Non-Retaliation. This policy also prohibits retaliation against any person who brings an accusation of discrimination or sexual harassment or who assists with the investigation of sexual harassment. Notwithstanding this provision, the University may discipline an employee or student who has been determined to have brought accusation of sexual harassment in bad faith.

D. Redress Procedures. Members of the University community who believe they have been sexually harassed may seek redress, using the following options:

1. Pursue appropriate informal resolution procedures as defined by the individual campuses. These procedures are available from the campus Equal Opportunity/Affirmative Action Officer.

2. Initiate a complaint or grievance within the period of time prescribed by an applicable grievance procedure. Faculty are referred to Section 370.010, "Academic Grievance Procedures"; staff to Section 380.010, "Grievance Procedure for Administrative, Service and Support Staff" and students to Section 390.010, "Discrimination Grievance Procedure for Students". Pursuing a complaint or informal resolution procedure does not compromise one's rights to initiate a grievance or seek redress under state or federal laws.

E. Discipline. Upon receiving a charge of sexual harassment against a member of faculty, staff, or student body, the University will investigate and, if substantiated, will initiate the appropriate disciplinary procedures. There is a five year limitation period from the date of occurrence for filing a charge that may lead to discipline. An individual who makes an accusation of sexual harassment will be informed:

- At the close of the investigation, whether or not disciplinary procedures will be initiated; and
Minimum Standards of Progress for Veterans

Veterans Affairs regulations require that all veterans drawing VA educational benefits at UMKC must comply with the Veterans Affairs Minimum Standards of Progress. These standards dictate that the veteran must be making satisfactory progress toward a degree while enrolled. The University's academic and probation policies have been approved by the Veterans Affairs as those Minimum Standards of Progress.

Undergraduate Student

Undergraduate degree-seeking students' academic status is assessed at the end of every term, whether the student is full-time or part-time for that term. A summer session is considered the same as a semester for the purpose of the following regulations:

1. In general, students will be placed on academic probation whenever their official UM grade-point average falls below 2.0 (C average). Some academic units may have a higher grade-point average requirement. New freshman admitted to UMKC on the basis of high school records, who have grade-point averages between 1.50 and 1.99 at the end of the first semester of either full- or part-time study will be placed on academic warning. Students on academic warning must achieve an overall C average by the end of their second semester or be placed on regular probation. They then would be subject to the regular probation requirements.

2. Students on academic probation will be restored to good standing when their UM grade-point average reaches 2.0 or the GPA level established by their academic units.

3. Students on academic probation must maintain the grade-point average required by their academic units during each subsequent semester or summer session while on probation. Otherwise, they are ineligible to re-enroll without the approval of the academic units.

4. Students on academic probation must remove themselves from probation within three successive semesters (including the semester in which they originally were placed on probation). Otherwise, they are ineligible to re-enroll without the approval of the academic units.

5. Students are responsible for knowing their academic status by referring to the term grade reports and their permanent academic records in the UMKC Records Office.

6. Graduate and Professional Students

Because there may be some variation in the academic and probation policies in the various graduate and professional schools within the University, reference should be made to the appropriate sections in this catalog.

Conduct

Institutional policy relating to conduct for veteran students is the same as for all other students. Statement of requirements is shown elsewhere in this catalog.
Student Records

Adequate records are kept by the school to show the progress of each eligible veteran. The records are sufficient to show continued pursuit at the rate for which enrolled and the progress being made.

These records include the final grade in each subject completed and a record of the date of withdrawal from any class the veteran does not complete. The last date of attendance must be reported to the Veterans Affairs.

No veteran will be considered to have made satisfactory progress when the veteran fails all subjects undertaken except with a show of mitigating circumstances, when enrolled in two or more unit subjects. This is immediately reported to Veterans Affairs. The determination for the continuance of benefits is made by the regional office of the Veterans Affairs.

Discrimination Grievance Procedure for Students
(390.010 Discrimination Grievance Procedure for Students; Bd. Min. 12-17-82, Bd. Min. 1-25-90, Amended Bd. Min. 10-16-03)

This policy is also available at http://www.umsystem.edu/ums/rules/collected_rules/grievance/ch390/grievance_390.010.

A. General

1. It is the policy of the University of Missouri to provide equal opportunity for all enrolled students and applicants for admission to the University on the basis of merit without discrimination on the basis of their race, color, religion, sex, sexual orientation, national origin, age or disability, or Vietnam era veteran status. Sexual harassment shall be considered discrimination because of sex. This policy shall not be interpreted in such a way as to violate the legal rights of religious organizations or military organizations associated with the Armed Forces of the United States of America.

2. To insure compliance with this policy, all University of Missouri prospective or enrolled students shall have available to them this student discrimination grievance procedure for resolving complaints or grievances regarding alleged discrimination.

3. This grievance procedure neither supersedes nor takes precedence over established University procedures of due process for any and all matters related to Academic Dishonesty, Grade Appeals, Traffic Appeals, Disciplinary Appeals, or other specific campus procedures which are authorized by the Board of Curators and deal with faculty/staff responsibilities.

4. These proceedings may be terminated at any time by the mutual agreement of the parties involved. Note: A grievance concerning specific incidents filed under this discrimination grievance procedure shall not be processed on behalf of any student who elects to utilize another University grievance procedure. In addition, the filing of a grievance under these procedures precludes the subsequent use of other University grievance or appeals procedures for the same incident.
B. Definitions

1. A complaint is an informal claim of discriminatory treatment. A complaint may, but need not, constitute a grievance. Complaints shall be processed through the informal procedure herein set forth.

2. A Grievance is the written allegation of discrimination which is related to:
   a. Recruitment and admission to the institution.
   b. Admission to and treatment while enrolled in an education program.
   c. Employment as a student employee on campus.
   d. Other matters of significance relating to campus living or student life, including, but not limited to: assignment of roommates in resident halls; actions of fraternities and sororities; membership in or admission to club/organizations; student health services; and financial aid awards.

3. A student is any person who has applied for admission or readmission, or who is currently enrolled, or who was a student of the University of Missouri at the time of the alleged discrimination.

4. Persons with disabilities--For the purpose of this student discrimination grievance procedure, a "person with a disability" has been substituted for "handicapped individual" (Section 504, Rehabilitation Act of 1973) and shall be defined as "... any person who:
   a. Has a physical or mental impairment which substantially limits one or more of such person's major life activities;
   b. Has a record of such impairment; or
   c. Is regarded as having such an impairment." For purpose of this definition, "major life activity" means any mental or physical function or activity which, if impaired, creates a substantial barrier to employment or education. Any reference in this document to written materials or to written or oral presentations within the student discrimination grievance procedure may be adjusted to accommodate persons with disabilities for whom the stated materials or required presentations would not be appropriate. Cost of such accommodation will be borne by the University, with no charge to the individual.

5. Appropriate Administrative Officer -- The primary administrative officer on the staff of the Chancellor (in the area of Student Affairs/Services, Administrative Services,
Development, and Academic Affairs) having administrative responsibility for the unit in which the discrimination is alleged to have occurred.

6. Grievance Consultant -- At any step the Director of Equal Opportunity or of Affirmative Action may be asked to serve as a consultant by any of the parties involved in this grievance procedure.

C. Complaints

1. Policies and Procedures -- A student with a complaint will be provided with copies of appropriate policies and procedures pertaining to student complaints and grievances, and the Chief Student Personnel Administrator or his/her designee and the Officer for Equal Opportunity/Affirmative Action shall be available to assist the student in understanding the opportunities afforded through such policies and procedures. The student may choose to have an adviser participate in any stage of the grievance procedures, subject to the restrictions of the hearing procedures set forth in Section 390.010 F.

2. Joint Complaint -- If more than one student is aggrieved by the same action, these students may, by mutual written agreement among themselves, file with the Chief Student Personnel Administrator a complaint and pursue their complaints jointly under this grievance procedure. If the number of students in such a case is so large as to make it impractical for them to be heard individually in a joint proceeding, they may, by mutual agreement, elect one or more of their number to act on behalf of them all.

3. Students may informally discuss a complaint with the relevant supervising administrator. Every reasonable effort should be made to resolve the matter informally at this administrative level. If a satisfactory resolution is not reached, the student may pursue the matter through each level of administrative jurisdiction up to and including the Appropriate Administrative Officer, or file a grievance within the time specified in D.1.b.

4. Complaints Involving Recruitment
   a. Undergraduate applicants must first present complaints about recruitment to the Director of Admissions. If a satisfactory resolution is not reached, the applicant may appeal the matter to the immediate supervising officer of the Director of Admissions.

   b. Applicants for graduate study may request a meeting with the academic department head and the Dean of the College, or their designees, who are actually involved in the recruitment effort to discuss the matter informally. If a satisfactory resolution is not reached, the applicant may appeal to the Dean of the Graduate School and finally to the Appropriate Administrative Officer.
5. Complaints Involving Admissions (Undergraduate or Professional)
   a. Undergraduate and professional student applicants shall present complaints to the Director of Admissions or to the Dean of the School or College, depending upon where the application was originally filed.

   b. This University official shall compare the person's academic qualifications against the official University admissions criteria and review the denial. If the denial is sustained, the applicant may appeal this decision to the official's immediate supervisor or to the appropriate admissions committee.

6. Complaints Involving Admissions (Graduate) -- Applicants to the Graduate School may ask for a meeting with the academic department head of the program to which the applicant was seeking admission. This official shall explain the reasons for the denial of recommendation for admission. If a satisfactory resolution is not reached, the applicant may then appeal to the Dean of the Graduate School or to the appropriate admissions committee. If the denial is upheld, the applicant may appeal the decision to the appropriate administrative officer.

7. Complaints Involving Admissions to or Treatment in an Educational Program or in the Granting of Assistantships -- An undergraduate or graduate student enrolled at the institution who has a discrimination complaint involving admission to or treatment in an educational program or in the granting of assistantships may request a conference with the appropriate department head and with the Dean of the School or College (or the Dean's designee) to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 F.

8. Complaints Involving Non-academic Matters Related to Campus Living and Student Life -- A currently enrolled student who has a University-related complaint concerning discrimination in non-academic matters including but not limited to assignment of roommates, actions of fraternities and sororities, membership in or admission to clubs/organizations, student health services and financial aid awards, may request a conference with the appropriate administrative supervisor, department head or director to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 D.

9. Complaints Involving Student Employment on Campus -- A student enrolled at the University who alleges that discrimination occurred either in applying for work or while working as a student employee at a University job may request a conference with the supervisor, department head or director of the employing unit to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 D.

10. Complaints Involving Financial Aid (Undergraduate, Graduate, Professional):
    a. Undergraduate, graduate and professional student aid applicants shall present
complaints to the Director of Student Financial Aid where the application was originally filed or the award originally made. b. This University official shall compare the person's financial and academic qualifications against the official University financial aid criteria and review the award amount or denial of the aid. If the original judgment is sustained, the applicant may appeal this decision to the official's immediate supervisor or to the appropriate financial aid committee.

D. Initiating a Grievance

1. Policies and Procedures -- A student with a grievance will be provided copies of appropriate policies and procedures pertaining to student complaints and grievances, and the Chief Student Personnel Administrator or designee, and the Officer for Equal Opportunity/Affirmative Action, shall be available to assist the student in understanding the opportunities afforded through such policies and procedures. The student may choose to have an adviser participate in any stage of the grievance procedure, subject to the restrictions of the hearing procedures set forth in Section 390.010 F.

   a. Joint Grievance -- If more than one student is aggrieved by the same action, these students may, by mutual written agreement among themselves, file with the Chief Student Personnel Administrator a grievance and pursue their grievances jointly under this grievance procedure. If the number of students in such a case is so large as to make it impractical for them to be heard individually in a joint proceeding, they may, by mutual agreement, elect one or more of their number to act on behalf of all of them.

   b. Regardless of their nature, all discrimination grievances are to be filed with the Chief Student Personnel Administrator. A grievance must have been filed by a student within one-hundred-eighty (180) calendar days of the date of the alleged discriminatory act.

2. Filing a Grievance

   a. All grievances must be presented in writing and contain the following information:

      1. A clear concise statement of the grievance which includes the name of the person(s) against whom the grievance is made, the date(s) of the alleged discrimination and a statement describing the specific supporting evidence;
      2. A brief summary of the prior attempts to resolve the matter, which includes the names of persons with whom the matter was discussed, and the results of those previous discussions;
      3. A specific statement of the remedial action or relief sought.

   b. Within seven (7) working days, the original grievance form with an explanation will be returned to the student if, in the judgment of the Chief Student Personnel Administrator, the statements are vague or do not meet the above requirement. The student may make the necessary corrections and resubmit the grievance within seven (7) days.
3. Any grievance not filed within the time limits specified in Section 390.010 D.1.b shall be deemed waived by the grievant. The Chief Student Personnel Administrator may extend the time limits only if adequate cause for an extension of the time limits can be shown by the student.

4. For informational purposes, copies of the grievance shall be forwarded to the Appropriate Administrative Officer and the Director of Equal Opportunity/Affirmative Action.

5. Within fifteen (15) working days of receipt of a grievance that satisfies the requirement of Section 390.010 D.1.b, the Appropriate Administrative Officer, with the consent of the parties involved, may establish an informal hearing with the aggrieved student, the responding faculty/staff/organization, the respondent's supervisor and the Appropriate Administrative Officer's designee. The Appropriate Administrative Officer shall not involve himself/herself in this meeting. If the informal means of resolving the grievance fails, a grievance committee will be impaneled as called for in Section 390.010 E.1.

E. Formation of a Grievance Committee
1. It is the Appropriate Administrative Officer's responsibility to initiate the selection of the grievance committee within fifteen (15) working days after the request for the formation of a grievance committee, or after the completion of the informal hearing provided for in Section 390.010 F.5 without satisfaction to the grievant.

2. A grievance hearing panel shall be established by October 1 of each year from which a grievance committee should be constituted. The panel shall consist of ten (10) faculty, ten (10) staff and ten (10) students. Selection of the panel will be made by the Chief Student Personnel Administrator from recommendations by the appropriate faculty, staff and student associations. Selection of membership will consider sex, race, disability, academic rank, student classification and employee classification. Membership on the hearing panel shall be for two years. A member's term shall expire on September 30 of the second year unless he/she is serving at that time on a hearing committee still in the process of reviewing an unresolved grievance. In such case, the member's term shall expire as soon as the committee has submitted a written report of its findings and recommendations to the Appropriate Administrative Officer.

3. A hearing committee shall be composed of five (5) members. The grievant shall select two (2) members from the grievance hearing panel provided by the Chief Student Personnel Administrator. The responding faculty/staff/organization shall select two (2) members from the grievance hearing panel. Both parties should have their selections made within 15 working days of the receipt of the request. The four committee members shall then select an additional member from the grievance hearing panel to serve as chair. Neither members of the immediate departmental unit nor student members of pertinent student organizations involved in the grievance shall be eligible to serve on the committee.
4. Any person selected to a grievance committee will be expected to serve on such committee and to be present at all sessions. If a member is absent from a single session, that person will be required to review all tapes or transcribed proceedings of that session prior to the next meeting of the committee. Should a member be absent from two sessions or should a member request to be excused from service for reasons of illness, necessary absence from the campus or other hardship, then the member shall be replaced in the same manner used in the original selection (see Section 390.010 E.3). If a member is unable or ineligible to serve for whatever reason, the replacement shall review all tapes or written transcripts and all submitted evidence prior to service on the committee. Five members of the hearing committee, duly selected as in Sections 390.010 E.3 and E.4 must attend the opening and closing session of the hearing.

F. Hearing Procedures for Formal Grievances

1. It shall be the responsibility of the Appropriate Administrative Officer to coordinate the procedures contained herein, to make provisions for hearing rooms, to coordinate secretarial and recording services and to otherwise serve the grievance committee as needed.

2. At the first organizational meeting of the grievance committee, the committee shall elect a chairperson from among the members to preside over subsequent meetings. Then the chairperson shall schedule a hearing at the earliest convenient time when all affected parties can be present.

3. A quorum consists of a minimum of four members of the committee except as provided by Section 390.010 E.4.

4. The grievance committee shall invite the grievant and the responding person to all hearings. Attendance at the hearings shall be limited to persons who have an official connection with the case as determined by the chairperson. The grievant and the responding person may choose to be accompanied by an adviser. Others whose participation in the hearing is considered essential in order to assist the committee in establishing the facts of the case shall appear before the committee only long enough to give testimony and to answer questions of committee members.

5. It is within the duties and responsibilities of all members of a grievance committee to commit themselves to observe procedures consistent with fairness to all parties concerned. For example, it is a matter of principle that members of the grievance committee will not discuss a case with anyone outside of the hearing process and that their finding will not be influenced by anything other than the evidence presented to them in meetings in which all affected parties are present.

6. The grievance committee shall set forth the rules of procedure for the hearing within the guidelines set forth herein. The chairperson may, for good cause and with the concurrence of a majority of the entire committee, authorize deviation from the suggested format, in which case the principal parties shall be notified.
a. The grievant shall be heard first in all phases of a grievance hearing and shall be primarily responsible for the presentation of his/her position.

b. The adviser of the grievant or respondent may advise that person and may briefly explain his or her position but shall not be permitted to testify or to cross-examine.

c. A reasonable time limit should be established for opening and closing statements and shall be announced prior to the hearing.

d. Length of hearing sessions may be established in advance; every effort should be made to conduct the hearing as expeditiously as possible, with equal fairness to both parties.

e. The interested parties shall provide the chairperson with the names of the adviser and potential witnesses at least forty-eight (48) hours prior to the hearing. It is the responsibility of the interested party, working with the chairperson, to ensure the presence of these individuals in a timely manner.

f. After initial witnesses for both parties have been heard, such witnesses may be recalled for additional questioning if requested by either party or the grievance committee. The committee may call new witnesses whose testimony it deems relevant or helpful.

g. In order to promote the truthful, unfettered exchange of information and ideas, all testimony pertaining to the grievance hearing shall be held in confidence.

h. Only evidence relevant to the grievance may be introduced. Questions regarding the admissibility of evidence shall be decided by the chairperson.

7. At any point in the proceedings prior to the time at which the committee reaches its final decision, the grievant may withdraw any portion or all of the grievance with the consent of a majority of the committee members and of the respondent. In all cases of withdrawal at the consent of the committee and of the respondent, the grievant shall not have the privilege of reopening the same grievance at any time in the future. In the event that the student refuses to participate further in the committee hearing, the committee may choose to continue the case or to move to closure with an appropriate closing statement as per Section 390.010 F.9.
8. A confidential tape recording of the grievance hearing shall be made and will be accessible to the parties involved, the committee, the Appropriate Administrative Officer, the Chancellor, the President, members of the Board of Curators and authorized representatives on a need-to-know basis. Either party to the grievance may request that the committee provide a written transcript of testimony. The cost of preparation of such a transcript is to be paid by the party making such request unless Section 390.010 B.4 is applicable. After the report of the grievance committee has been prepared, the tapes and relevant materials will be sealed and filed in the Appropriate Administrative Office. Unless extraordinary circumstances apply, these materials will be destroyed at the end of five years.

9. At the conclusion of the grievance hearing, the members of the grievance committee shall meet in closed session to deliberate upon their findings. A majority vote of the entire committee shall be required on all decisions. The grievance committee shall make a written report on findings and recommendations to the Appropriate Administrative Officer of the University, with copies to the grievant(s) and the responding person(s). The written report will contain:

   a. A statement of the purpose of the hearing,
   
   b. Issues considered,
   
   c. A summary of the testimony and other evidence presented,
   
   d. Findings of fact as developed at the hearing, and
   
   e. Recommendations for final disposition of the case.

10. The Appropriate Administrative Officer will make his/her decision. This decision and the actions that have been taken shall be presented to both parties in writing. If the administrative officer does not accept the recommendations of the grievance committee, a written statement of the reasons for so ruling must be given to both parties and to the chairperson of the committee.

11. If requested by the grievant or the responding party, normally within seven (7) calendar days of the notification of the decision, the decision of the Appropriate Administrative Officer may be subject to a review of the records by the Chancellor. Any review and decision by the Chancellor shall be made normally within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, who shall have thirty (30) calendar days in which to make a decision, which shall be final.
12. Grievances shall receive prompt attention. The hearing and the report of the grievance committee shall normally be completed within sixty (60) calendar days of the formation of the grievance committee, and a final decision shall be made by the Appropriate Administrative Officer normally within ten (10) calendar days thereafter. In any case in which these time schedules should prove to be inadequate, the committee shall present, in writing, an amended time schedule to all parties involved.

**Student Discrimination Grievance Procedure Form**

(Use additional sheets if needed)

1. Your Name:

Check One: Male____ Female____

Student I.D. No.:

Mailing Address:

City, State, Zip Code:

Telephone:

2. Submitted to (Campus specific title for Chief Student Personnel Administrator):

On (Month/Day/Year):

3. The basis for the grievance is alleged discrimination on the basis of (Race/Color/Religion/Sex/National Origin/Age/Disability):

4. University official or unit against whom this grievance is filed (Name/Department):

5. Explain in a clear and detailed statement the following:

a. The nature of the grievance and a description of specific supporting evidence:

b. The specific remedial action or relief sought:

For grievances alleging discrimination to admission and/or treatment while enrolled in an educational program, employment on campus, or other matters of consequence relating to campus living or activities.

c. A summary outlining with whom the point(s) of dissatisfaction were discussed and with what results:
6. Date you consider the "Informal discussion" ended:

I HAVE READ AND UNDERSTAND THE ABOVE GRIEVANCE FORM AND GRIEVANCE PROCEDURE FOR STUDENTS. THIS GRIEVANCE I AM FILING IS TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION, OR BELIEF.

Signature________________________________ Date_______________

This form forwarded to (Appropriate Administrative Officer):

On (Month/Day/Year):

By (Campus-specific title for Chief Student Personnel Administrator):

(Campus Address)

**Suggested Format for Hearing**

I. Opening remarks accompanied by written submission of parties' outlines of relevant, non-redundant evidence to be offered to committee.

a. Grievant

b. Respondent

II. Consideration of any decision on objections to acceptance of items of evidence.

III. Presentation of relevant, non-redundant evidence.

a. Grievant (with additional questions from Respondent and/or committee)

1. Witnesses

2. Non-testimonial evidence

b. Respondent (with additional questions from Grievant and/or committee)

1. Witnesses

2. Non-testimonial evidence
IV. Opportunity for presentation of any rebuttal evidence.

a. Grievant

b. Respondent

V. Presentation of additional evidence requested by committee.

VI. Summation of case

a. Grievant

b. Respondent
Registration

Registration Policy
Eligible students may register during the registration period that is announced in Pathway and via UMKC e-mail. Students who are not registered will not receive academic credit and cannot attend classes. All registration and changes in registration must be processed by the UMKC Registration and Records Office either in person or using an approved electronic format such as Pathway.

A class schedule is published prior to each semester in Pathway and lists courses offered, meeting times and locations. The University reserves the right to cancel without notice any course listed in the schedule for any semester, or to withdraw any course that does not have adequate enrollment at the close of the registration period.

Undergraduate Course Adds
Eligible students may register during the registration period that is announced in Pathway and via UMKC e-mail.

Students who are not registered will not receive academic credit and cannot attend classes. All registration and changes in registration must be processed by the UMKC Registration and Records Office either in person or by using an approved electronic format such as Pathway.

A class schedule is published in Pathway prior to each semester and lists courses offered, meeting times and locations. The University reserves the right to cancel any course listed in the schedule without notice.

Adding a Class

Students may add a class to their official records through the first week of classes for a regular session.

Students who are not enrolled at the time a semester begins are subject to an additional fee.

Additions of courses after the first week of classes are deemed unusual and therefore require the approval and signatures of advisors and the instructor of record.

Undergraduate Course Drops
Eligible students may register during the registration period that is announced in Pathway and via UMKC e-mail. Students who are not registered will not receive academic credit and cannot attend classes. All registration and changes in registration must be processed by the UMKC Registration and Records Office either in person or using an approved electronic format such as Pathway.

A class schedule is published prior to each semester in Pathway and lists courses offered, meeting times and locations. The University reserves the right to cancel without notice any
course listed in the schedule for any semester, or to withdraw any course that does not have adequate enrollment at the close of the registration period.

Eligible students may drop during the drop schedule period that is provided in the Academic Calendar.

Eligible students may drop classes without academic assessment from the point of initial registration through the first 25% of a session, which is the first four weeks of a 16-week fall or spring semester.

If students drop all of their classes prior to the end of the first four weeks of the semester, a notation is placed on their transcript that indicates the date the classes were dropped. Students who drop all of their classes during the first four weeks of the semester are required to follow the Total Withdraw Policy.

**Undergraduate Course Withdrawals**

Eligible students may withdraw from their classes during the withdraw schedule period that is provided for each session of a semester/term in the Academic Calendar. (*Note: Students with the intent to withdraw from all of their classes must follow the Official/Total Withdraw Policy.*)

Students in a 16-week session follow the following schedule:

After the fourth week through the eighth week students will receive an automatic W on their transcript.

After the eighth week, students will be assessed academically and, if they are failing at the time of withdrawal, they will be given a grade of WF (withdrawn failing) at the discretion of the faculty member. A WF **is not** calculated in the grade-point average. (*Note: No retroactive WF changes will be made for any semester prior to Fall 2012.*)

After the twelfth week students must petition their home academic unit before being allowed to withdraw from a course.

Students in 8-week courses follow a similar schedule. See the academic calendar for specific dates.
**Undergraduate Official/Total Withdrawals**

Official withdrawals may be done by mail when a student is unable to appear in person (for example, if you are out of town or suffering from an illness or accident) or if the Registration & Records Office is closed or Pathway is down (for example, during a power outage) and you wish to receive a refund. The postmark on the envelope is used as the refund date.

Transcript notations are determined based on the time of the semester the withdrawal occurs.

Students wishing to withdraw from all of their classes must complete an exit interview questionnaire available at [https://www.umkc.edu/stu-aff/exit/login.cfm](https://www.umkc.edu/stu-aff/exit/login.cfm).

The following actions are **not** considered official notification of withdrawal.

- Assuming classes will be cancelled because of nonpayment of tuition and fees by the student.
- Failure to attend class.
- Giving notice to an instructor.
- Stopping payment on a check used to pay fees.
- Crossing out courses on a schedule.
- Returning only partial payment to the Cashier's Office.
- Verbal notice to any University office or employee.

**Undergraduate Retroactive Withdrawals**

A student may petition for Retroactive Withdrawal from a course(s) or from the university (all courses taken during that semester), if circumstances of a serious and compelling nature prevented the completion of course work and extenuating circumstances prevented submission of a regular withdrawal petition by the deadline on the Academic Calendar. In filing a Petition for Retroactive Withdrawal, withdrawal from all courses taken during the term in question is normally expected since 'extenuating circumstances' are not course-specific.

Petitions must be submitted to the School or College (academic unit) where the student’s current major is housed. Each academic unit will assemble a retroactive withdrawal committee that will make decisions on all retroactive withdrawal petitions. Approved retroactive withdrawal petitions which require a change of grade will follow standard change of grade procedures. A copy of the approved petition and supporting documentation should be attached to the grade change form when it is submitted to the Registration and Records office.

Petitions that are approved by the home academic unit for courses that reside outside of the home academic unit will be forwarded to the host academic unit retroactive withdrawal committee along with all supporting documentation. The host retroactive withdrawal committee will forward their decision back to the home academic unit.

If the petition for retroactive withdrawal is denied by either home or host retroactive withdrawal committee, the student has the right to appeal the decision to their home academic unit Dean. The decision of the home Dean is final.
If the home academic unit Dean approves a petition for coursework that is housed in a host academic unit, the paperwork will be forward to the host academic unit Dean for a decision. The host dean will forward their decision back to the home academic unit. The decision of the host Dean is final.

Students who submit a retroactive withdrawal are not typically candidates for fee refunds. For courses taken while enrolled in the Interdisciplinary Ph.D. program in the School of Graduate Studies and the Schools of Dentistry, Law, Medicine, and Pharmacy, students should refer to the retroactive withdrawals policies and procedures of these schools as they may have more stringent requirements.

**Students are not a candidate for retroactive withdrawal if any of the following conditions are true:**

You are applying because you are not satisfied with the grade you earned.

You are applying because you neglected to formally withdraw from the course(s) in question.

You were not aware of the withdrawal deadlines.

You changed your major and are now working towards a major or degree which does not require this course.

You assumed non-academic activities which restricted your time for academic pursuit.

You were ill or you suffered stress as the result of an accident, death, family crisis, or other crisis early enough in the semester to have withdrawn during the semester.

You have already received a UMKC degree for which the course(s) in question were applied towards degree requirements and/or your UM GPA.

If any of the above are found to be true of your case, your request for retroactive withdrawal will be denied.

**Students may be candidates for retroactive withdrawal if any of the following conditions are true:**

There was a documented administrative error that affected your enrollment in one or more courses.

You have documentation of a serious illness that affected your ability to complete all of your coursework after the withdrawal date.

You encountered documented extreme and unusual circumstances which a) were beyond your control, b) occurred after the withdrawal date, and c) could not have been addressed during the term in which the course(s) was taken.
Process for submitting a Retroactive Withdrawal Petition:

1. To withdraw retroactively from the university or specific courses, the student must present official supporting documents which demonstrate serious and compelling reasons (usually due to serious accident or illness) justifying the withdrawal and extenuating circumstances justifying its 'retro' nature.

2. The student collects supporting documentation submits the entire package (Retroactive Withdrawal form and official supporting documentation) to the School or College where their major is housed.

3. All decisions will be made by each School or College Retroactive Withdrawal or Petition for Exception Committee.

4. Individual instructor’s feedback should be considered with all petitions.

5. Once a decision is made the home School or College will send all documentation to the Registration & Records Office.

The retroactive withdrawal policy is effective as of Summer 2010 and applies to all students, regardless of the catalog year the student entered the University.